S/M No: **TSC130BEF0**

Service Manual

76 Cm WIDE STEREO Colour Television

CHASSIS : SC-130

MODEL : DSC-3270E

■ Specifications

CRT	32" : W76ERF041X
SYSTEM	PAL/SECAM-B/G, D/K, PAL-I/I', SECAM-L/L'
	AV NTSC-3.58/4.43MHz(play back)
MAIN VOLTAGE	AC 220~240V, 50Hz
POWER CONSUMPTION	Stand-by mode : 1.3 Watts Normal operating mode : 180 Watts
SOUND SYSTEM	Dolby Surround Pro-Logic
SOUND OUTPUT	Main L/R: 8 Watts, Center/SR/SL : 5 Watts
ANTENNA IMPEDANCE	75 ohm unbalanced input (Din Standard)
TUNING SYSTEM	Frequency Systhesize (FS) Tuning System
TUNER	DT5-BF18D
NUMBER OF PROGRAM	100 program
AUX. TERMINAL	A/V1 : 21 pin EURO-SCART jack(AV input, TV out, RGB input) A/V2 : 21 pin EURO-SCART jack(AV input, Monitor Out, RGB input) A/V3 : 21 pin EURO-SCART jack(AV input, TV out Y/C input) A/V4 : RCA type AV input jack, Headphone Out jack(3.5mm), S-VIDEO input Terminal AUDIO output(SR, SL)
OSD LANGUAGE	English, German, French, Italian, Spanish, Nethelands, Swedish

DAEWOO ELECTRONICS CO., LTD

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1. Safety Instruction

WARNING : Only competent service personnel may carry out work involving the testing or repair of this equipment

■ X-RAY RADIATION PRECAUTION

1. Excessive high voltage can prodece potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not exceed the specified limit. The nominal value of the high voltage of this receiver is 28-29.5kv at max beam current. The high voltage must not, under any circumstances, exceed 30kv.
   Each time a receiver require servicing, the high voltage should be checked. It is improrrtant to use an accurate and reliable high voltage meter.
2. The only source of X-RAY Radiation in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.

■ SAFETY PRECAUTION

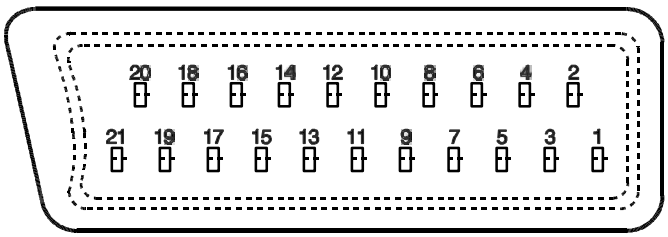
1. Potentials of high voltage are present when this receiver is operating. Operation of the receiver outside the cabinet or with the back board removed involves a shock hazard from the receiver.
   1) Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high-voltage equipment.
   2) Dischange the high potential of the picture tube before handling the tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled.
2. If any Fuse in this TV receiver is blown, replace it with the FUSE specified in the Replacement Parts List.
   When replacing the fuse, You must disconnect main plug.
3. When replacing a high wattage resistor (oxide metal film resistor) in circuit board, keep the resistor 10mm away from circuit board.
4. Keep wires away from high voltage or high temperature components.
5. This receiver must operate under AC240 volts, 50Hz. NEVER connect to DC supply or any other power or frequency.

■ PRODUCT SAFETY NOTICE

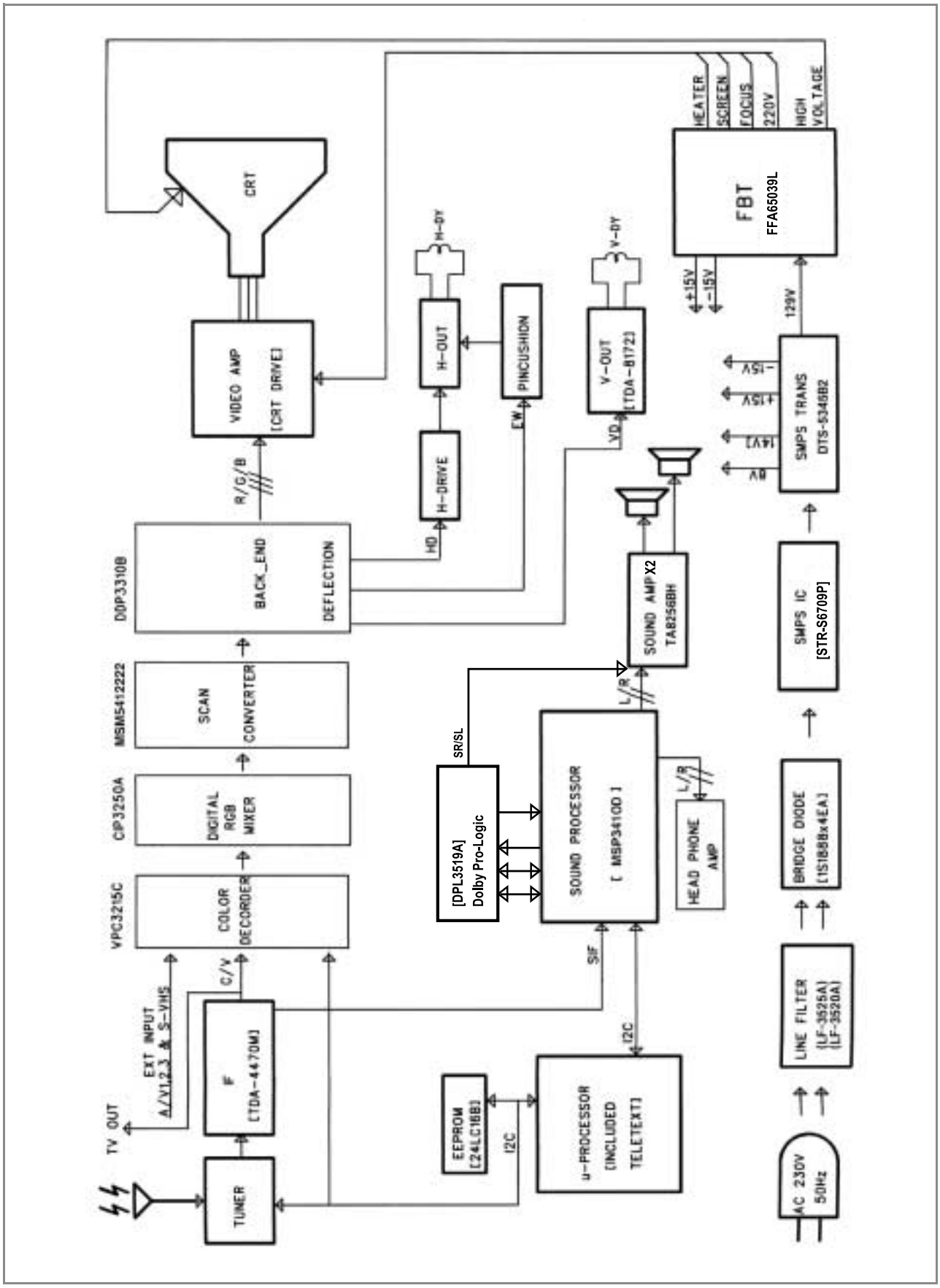
Many electrical and mechanical parts in this have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-RAY RADIATION protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements, electrical components having such features are identified designated symbol on the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characterisitics as specifide in the parts list may create X-RAY Radiation.

2. Specifications

PIN	Signal Designation	Matching Value
1	Audio Out (linked with 3)	0.5Vrms, Imp < 1 kΩ (RF 60% MOD)
2	Audio In (linked with 6)	0.5Vrms, Imp < 10 kΩ
3	Audio Out (linked with 1)	0.5Vrms, Imp < 1 kΩ(RF 60% MOD)
4	Audio Earth	
5	Blue Earth	
6	Audio in (linked with 2)	0.5Vrms, Imp < 10 kΩ (RF 60% MOD)
7	Blue in	0.7Vpp ± 2dB, Imp 75Ω
8	Slow (Function) Switching	TV : 0-2V, PERI : 9.5 - 12V, Imp > 10 kΩ
9	Green Earth	
10	NC	
11	Green In	0.7Vpp ± 2dB, Imp 75Ω
12	NC	
13	Red Earth	
14	Rapid(Blanking) Switching Earth	
15	Red In, C In	0.7Vpp ± 2dB, Imp 75Ω
16	Rapid(Blanking) switching	Logic 0 : 0 - 0.4V, Logic 1 : 1 - 3V, Imp 75Ω
17	Video Earth	
18	Rapid Blanking Earth	
19	Video Out	1Vpp ± 2dB, Imp 75Ω
20	Video In, Y In	1Vpp ± 2dB, Imp 75Ω
21	Common Earth	



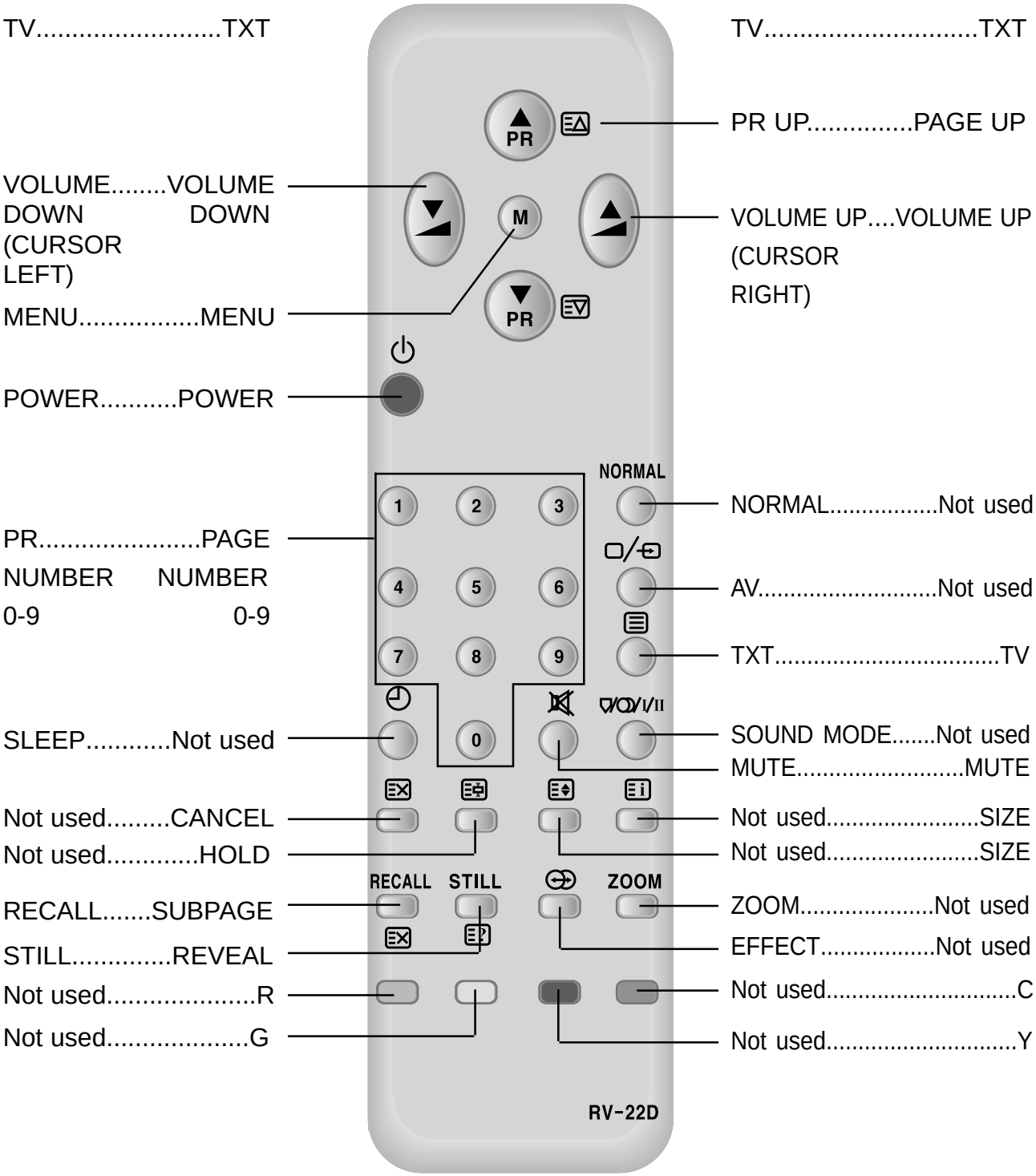
3. Circuit Block Diagram



5. Alignment Instructions

4-1. User Remocon

■ **RV-22D**



* How to Enter the " Service Mode " with user remocon.

1) Set the AV1 Pr 91

2) Sharpness " MIN " control.

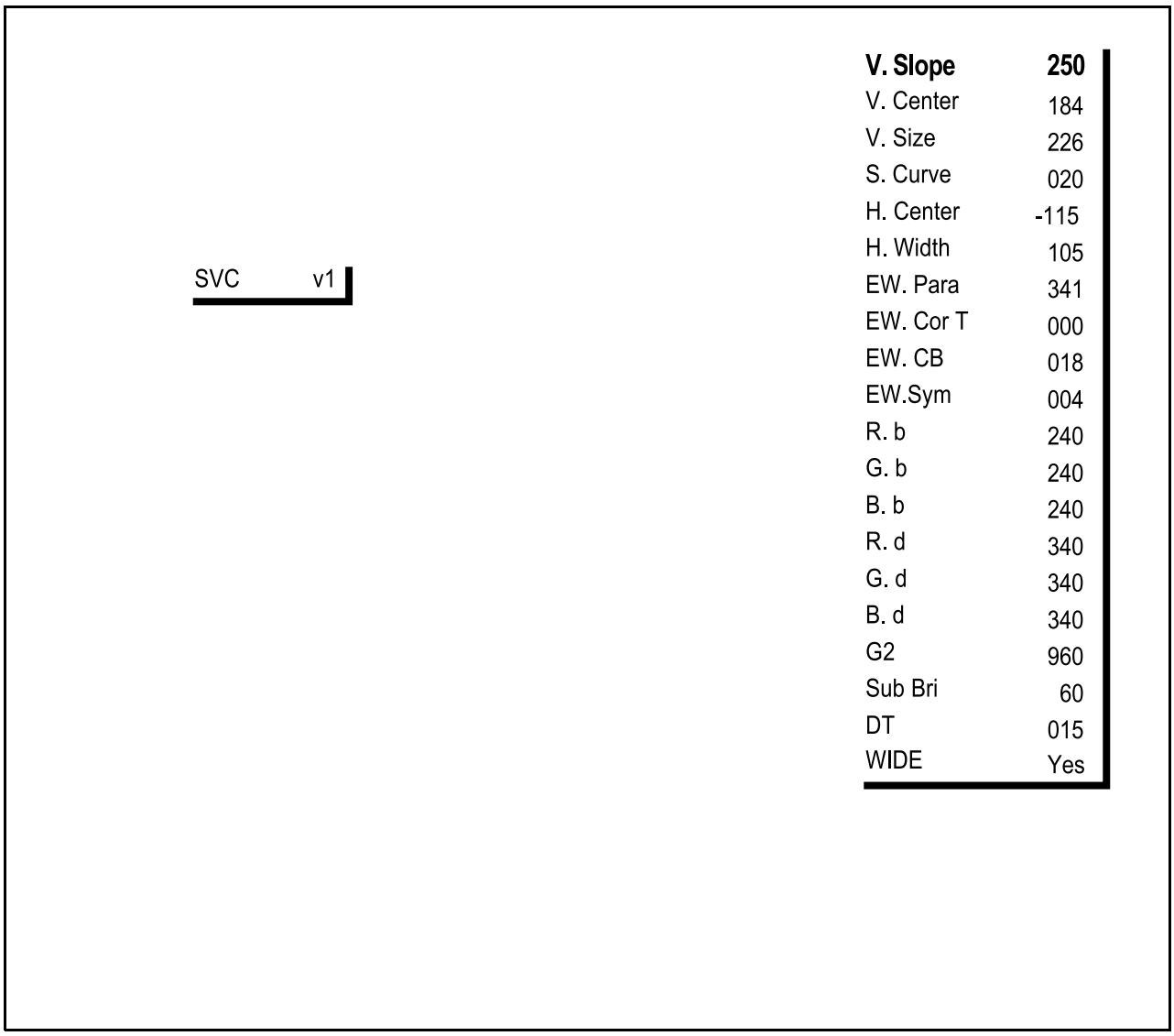
3) Red, Green, MENU buttons in regular sequency within 5 seconds after setting TV power off.

4) You can see the Menu of " service mode " on the screen.

5) The PR UP/DOWN buttons on the remote controller are used to move the selection bar up or down the Menus.

6) The VOL UP/DOWN buttons on the remote controller are used to adjust levels.

7) If you want to exit from " Service Mode " then power the TV off.



- You can see the SVC Menu by OSD in TV set.

4-2. AFT

Standard B/G, D/K, I and L

1) Set a Signal Generator with
   - RF FREQUENCY = 38.9 MHz,
   - RF OUTPUT LEVEL = 80± 5dBuV
   - Pattern = Color Bar
   - System = PAL-B/G
2) Connect the Signal Generator RF Output to TP02 (Tuner IF Output).
   There must be no signal input to the tuner.
3) Set the L103 to PW102 PIN① (I101, #22) with DC Voltage to 2.5V± 0.1V

4-3. AGC

1) Set a Pattern Generator with RF LEVEL 60 ±3dBuV, RF Frequency 210. 25MHz(10CH), Pattern Color Bar.
2) Connect a OSCILLOSCOPE PROBE to PW101 PIN① (TUNER AGC INPUT).
3) Set the RB2 to PW101 PIN① (Tuner AGC Input) with DC Voltage to 2.8V ±0.2V

4-4. SCREEN

4-4-1 Press the screen button on the service remote control

1) Video Input mode will be VIDEO 1 (No Signal).
2) Vertical deflection will be down, and a horizontal line will appear on the screen.

4-4-2 Turn the variable screen volume of FBT to adjust screen voltage, at the point that a horizontal line only just appears.

4-5. FOCUS

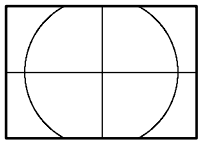
1) Apply a RETMA PATTERN signal.
2) Adjust the upper FOCUS VOLUME on FBT to obtain horizontally optimal resolution.
3) Adjust the lower FOCUS VOLUME on FBT to obtain vertically optimal resolution.

4-6. GEOMETRY

4-6-1 VERTICAL SLOPE (Fixed : Adjust if need be)

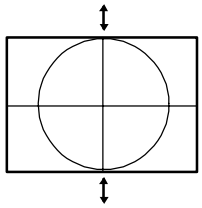
1) Apply a RETMA PATTERN Signal.
2) Set the TV to Normal I mode.
3) Adjust the higher semicircle and the lower semicircle to be the same, with the V.Slope by volume Up/Down keys.

4-6-2 VERTICAL CENTER



1) Apply a RETMA PATTERN Signal.
2) Set the TV to Normal I mode.
3) Adjust the center of the picture with the V.Center by volume Up/Down keys.

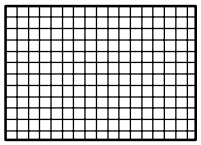
4-6-3 VERTICAL SIZE



* The VERTICAL CENTER adjustment has to be done in advance.

1) Apply a RETMA PATTERN Signal.
2) Set the TV to Normal I mode.
3) Adjust the VERTICAL SIZE of the picture with the select V.size by volume UP/DOWN keys.

4-6-4 VERTICAL S-CORRECTION (Fixed : Adjust if need be)



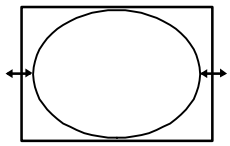
1) Apply a CROSSHATCH PATTERN Signal.
2) Adjust the S-CORRECTION to obtain the same distance between horizontal lines with the S.Curve by volume UP/DOWN keys.

4-6-5 HORIZONTAL CENTER

1) Apply a RETMA PATTERN Signal.
2) Adjust picture centering with the select H.Center by volume UP/DOWN keys.

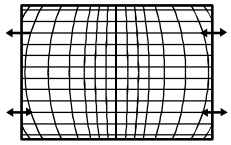
4-7. EW

4-7-1 WIDTH



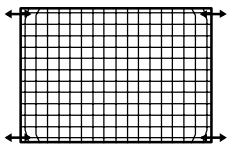
1) Apply a RETMA PATTERN Signal.
2) Adjust the horizontal width to make a perfect circle with the select H.Width by volume UP/DOWN keys.

4-7-2 PARA



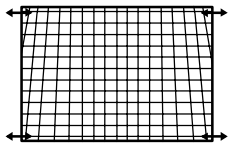
1) Apply a CROSSHATCH PATTERN Signal.
2) Adjust the vertical line to straight with the select E.W Para by volume UP/DOWN keys.

4-7-3 CORNER (Fixed : Adjust if need be)



1) Apply a CROSSHATCH PATTERN Signal.
2) Adjust the vertical line to straight with the select EW.Cor T by volume UP/DOWN keys.

4-7-4 SYMMETRY (Fixed : Adjust if need be)



1) Apply a CROSSHATCH PATTERN Signal.
2) Turn R451 to the maximum left.
3) Adjust the symmetrical balance to be suitable with the select EW Sym by volume UP/DOWN keys.

4-8. WHITE BALANCE

4-8-1 RGB Reference R

4-8-2 Beam Reference LOW (288, 301 : 10Cd/ m^2)
HIGH (288, 301 : 10Cd/ m^2)

4-8-3 Adjust G, B Gain with select Menu G,B of BIAS, DRIVE of select Menu so that R, G, B Bars are on the center position of the analog meter. If R Analog meter is not on center, control the Brightness +/- of user Remocon so as R Analog meter to be on the center position.

4-9. SUB BRIGHT

4-9-1 Pattern : Retma

4-9-2 Adjust the SUB BRIGHT with the select Sub Bri by volume UP/DOWN keys. so that only H-Center parts of picture can be seen.

4-10. DOUBLE TEXT CENTER

4-10-1 Pattern : Pattern RED

4-10-2 Select Menu

4-10-3 Select DT in SVC menu time to see the Double Text Picture. (Left : RF Picture, Right : Text Picture)

4-10-4 Change the Double Text control keys volume UP/DOWN keys so that the left edge of text picture concur with the right edge of RF picture.

5. IC description

5-1. ST92195

(1) General Description

1.1 INTRODUCTION

The ST92195 microcnontoller is developed and manufactured by STMicroelecrtonics using a proprietary n-well HCMOS process. Its performance derives from the use of a flexible 256-register programming model for ultra-fast context switching and real-time event response. The intelligent onchip peripherals offload the ST9 core from I/O and data management processing tasks allowing critical application tasks to get the maximum use off core resources. The ST92195 MCU supports low power consumption and low voltage operation for power-efficient and low-cost embedded systems.

1.1.1 ST9+Core

The advanced Core consists of the Central Processing Unit (CPU), the Register File and the Interrupt controller. The general-purpose registers can be used as accumulator, Index register, or address pointers. Adjacent register pairs make up 16-bit registers for addressing or 16-bit processing. Although the ST9 has an 8-bit ALU, the chip handles 16-bit operations, including arithmetic, loads/stores, and memory/register and memory/memory exchanges. Two basic memory spaces are available : Program Memory and the Register File, Which includes the control and status registers of the on-chip peripherals.

1.1.2 Power Saving Modes

To optimize performance versus power consumption, a range of operating modes can be dynamically selected.

Run Mode. This is the full speed execution mode with CPU and peripherals running at the maximum clock speed delivered by the phase Locked Loop(PLL) of the Clock Control Unit(CCU).

Wait For Interrupt Mode. The Wait For Interrupt(WFI) instruction suspends program execution until an interrupt request is acknowledged. During WFI, the CPU clock is halted while the peripheral and interrupt controller keep running at a frequency programmable via the CCU. In this mode, the power consumption of the device can be reduced by more than 95%(LP WFI).

Wait For Interrupt Mode. The Wait For Interrupt(WFI) instruction, and if the Watchdog is not enable, the CPU and its peripherals stop operation and the I/O ports enter high impedance mode. A reset is necessary to exit from Halt mode.

1.1.3 I/O Ports

Up to 28 I/O lines are dedicated to digital Input/Output. These lines are grouped into up to five I/O Ports and can be configureed on a bit basis under software control to provide timing, status signals, timer and output, analog inputs, external interrupts and serial or parallel I/O.

1.1.4 TV Peripherals

A set of on-chip peripherals form a complete system for TV set and VCR applications:

- Voltage Synthesis
- VPS/WSS Slicer
- Teletext Slicer
- Teletext Display RAM
- OSD

1.1.5 On Screen Display

The human interface is provided by the On Screen Display module, this can produce up to 26 lines of up to 80 characters from a ROM defined 512 character set. The character resolution is 10x10 dot. Four character sizes are supported. Serial attributes allow the user to select foreground and background. Parallel attributes can be used to select additional foreground and background colors and underline on a character by character basis.

1.1.6 Teletext and Display RAM

The internal 8k Teletext and Display storage RAM can be used to store Teletext pages as well as Display parameters.

1.1.7 Teletext, VPS and WSS Data Slicers

The three on-board data slicers using a single external crystal are used to extract the Teletext, VPS and WSS information from the video signal. Hardware Hamming decoding is provided.

1.1.8 Voltage Synthesis Tuning Control

14-bit Voltage Synthesis using the PWM (Pulse Width Modulation)/BRM (Bit Rate Modulation) technique can be used to genetate tuning voltages for TV set applications. The tuning voltage is output on one of two separate output pins.

1.1.9 PWM Output

Control of TV settings is able to be made with up to eight 8-bit PWM outputs, with a frequency maximum of 23,437Hz at 8-bit resolution(INTCLK=12 MHz). Low resolutions with higher frequency operation can be programmed.

1.1.10 Serial Peripheral Interface (SPI)

The SPI bus is used to communicate with external devices via the SPI, or I^2C bus communication standards. The SPI uses one or two lines for serial data and a synchronous clock signal.

1.1.11 Standard Timer (STIM)

The Standard Timer includes a programmable 16-bit down counter and an associated 8-bit prescaler with Single and Continuous counting modes.

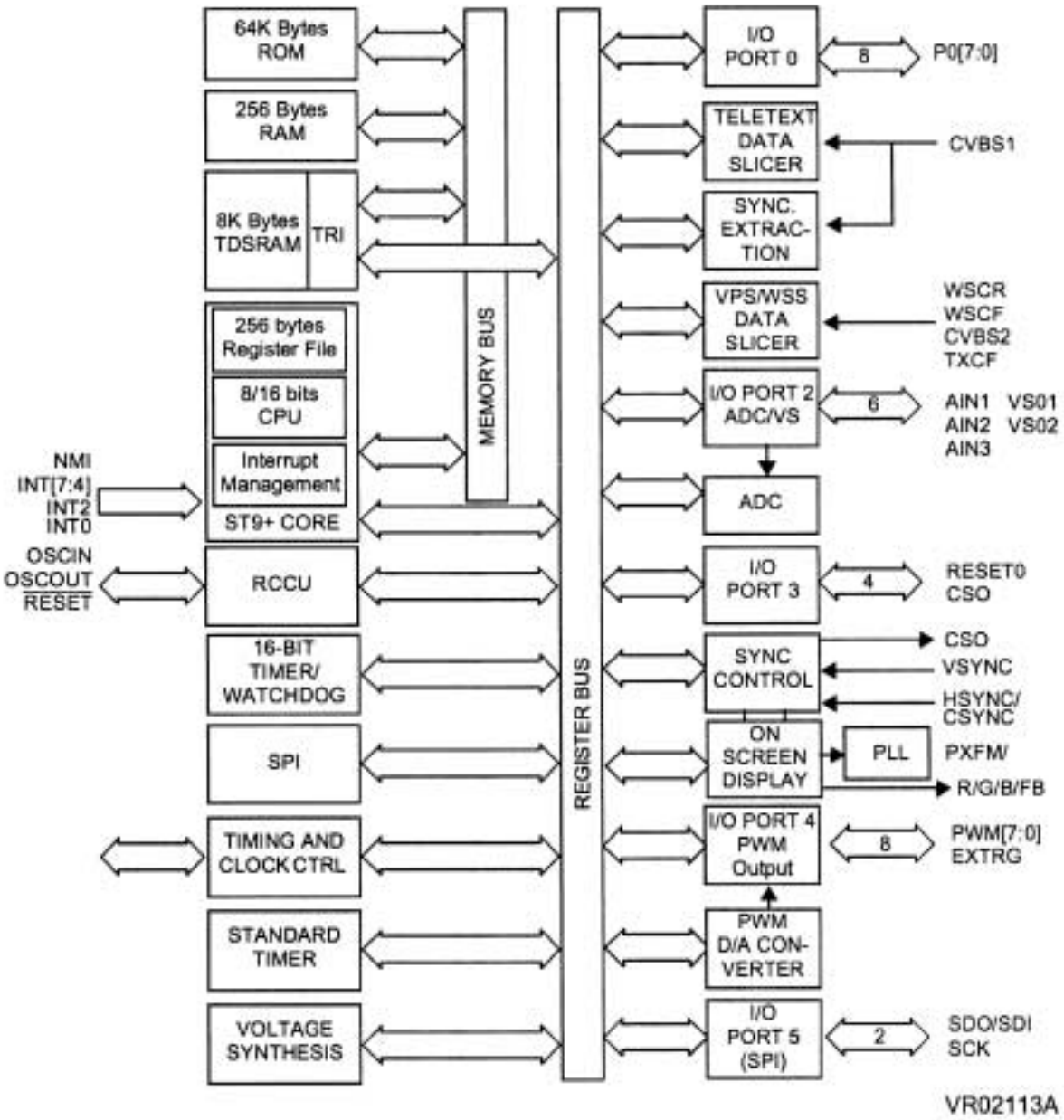
1.1.12 Analog/Digital Converter (ADC)

In addition there is a 3 channel Analog to Digital Converter with integral sample and hold, fast 5.7us conversion timer and 6-bit guaranteed resolution.

(2) Feature

- Register File based 8/16 bit Core Architecture with
- RUN, WFI, SLOW and HALT modes
- $0^{\circ}C$ to 70° Coperating temperature range
- Up to 24 MHz Operation @5V ±10%
- Minimum instruction cycle time : 375ns at 16MHz internal clock
- 64K Bytes ROM
- 256 Bytes RAM of Register file(accumulator or index registers)
- 256 Bytes of on-chip static RAM
- 8K Bytes of TDSRAM(Teletext and Display RAM)
- 56-lead Shrink DIP package
- 28 fully programmable I/O pins
- Serial Peripheral Interface
- Flexible Clock controller for OSD, Data Slicer and Core clocks running from one single low frequency external crystal.
- Enhanced Display Controller with 26 rows of 40/80 characters
  - Serial and Parallel attributes
  - 10x10 dot Matrix, 512 ROM characters, definable by user
  - 4/3 and 16/9 supported
  - Rounding, fringe, double width, double height, scrolling, cursor, full background colour, semitransparent mode and reduced intensity colour supported
- Teletext unit, including Data slicer, Acquisition Unit and up to 8K Bytes RAM for Data Storage
- VPS and Wode Screen Signalling slicer
- Integrated Sync Extractor and Sync Controller
- 14-bit Voltage Synthesis for tuning reference voltage
- Up to 6 external interrupts plus 1 non-maskable interrupt
- 8x8-bit programmable PWM outputs with 5V open-drain or push-pull capability
- 16-bit Watchdog timer with 8-bit prescale
- 16-bit standard timer with 8-bit prescaler usable as a Watchdog timer
- 3-channel Analog-to-Digital converter ; 6-bit guaranteed
- Rich instruction set and 14-Addressing modes
- Versatile Development Tools, including Assembler, Linker, C-compiler, Archiver, Source Level Debugger and Hardware Emulators with Real-Time Operating System available from third parties
- Piggyback board available for prototyping

(3) Block Diagram



(4) PIN DESCRIPTION

RESET *Reset* (input, active low). The ST9+ is initialised by the Reset signal. With the deactivation of RESET, program execution begins from the Program memory location pointed to by the vector contained in program memory locations 00h and 01h.

R/G/B *Red/Green/Blue.* Video color analog DAC outputs

FB *Fast Blanking.* Video analog DAC output.

VOD Main power supply voltage(5V 10%, digital)

WSCF, WSCR Analog pins for the VPS/WPP slicer line PLL.

MCFM Analog pin for the display pixel frequency multiplier.

OSCIN, OSCOUT *Oscillator* (input and output).
These pins connect a parallel-resonant crystal(24MHz maximum), or an external source to the on-chip clock oscillator and buffer. OSCIN is the input of the oscilltor inverter and internal clock generator; OSCOUT is the output of the oscillator inverter.

VSYNC *Vertical Sync.* Vertical video synchronisation input to OSD. Positive or negative polarity.

HYNC/CSYNC *Horizontal/Composite sync.* Horizontal or composite video synchronisation input to OSD. Positive or negativety.

PXFM Analog pin for the Display Pixel Frequency Multiplier

AVDD *Analog VDD of PLL.* This pin must be tied to VDD externally to the ST92195.

GND Digital circuit ground.

AGND Analog circuit ground(must be tied externally to digital GND).

CVBS1 Composite video input signal for the Teletext slicer and sync extraction.

CVBS2 Composite video input signal for the VPS/WSS slicer. Pin AC coupled.

AVDD1, AVDD2 Analog power supplies(must be tied externally to AVDD).

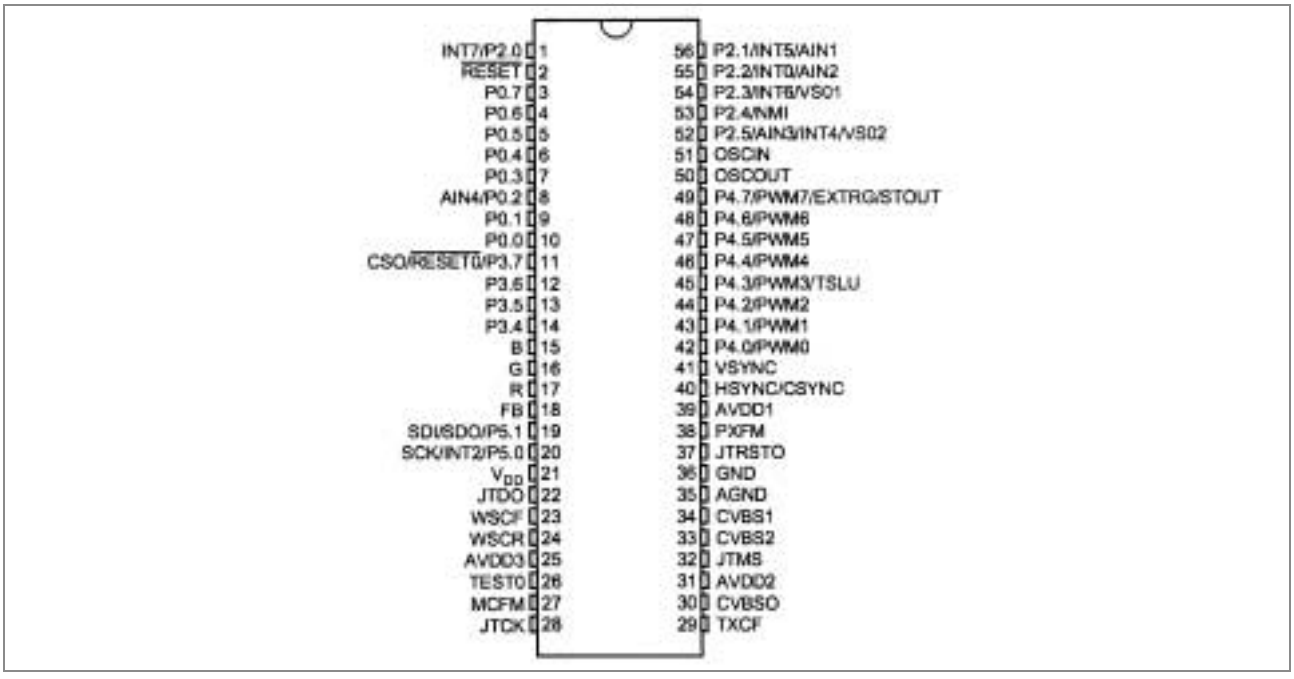
TXCF Analog pin for the VPS/WSS line PLL.

CVBSO, JTDO, JTCK Test pins : leave floating.

JTMS, TEST0 Test pins : must be tied to AVDD2.

JTRST0 Test pin : must be tied to GND.

Figure 2. Pin Description



5-2. VPS 3215C(Video Processor)

(1) Description

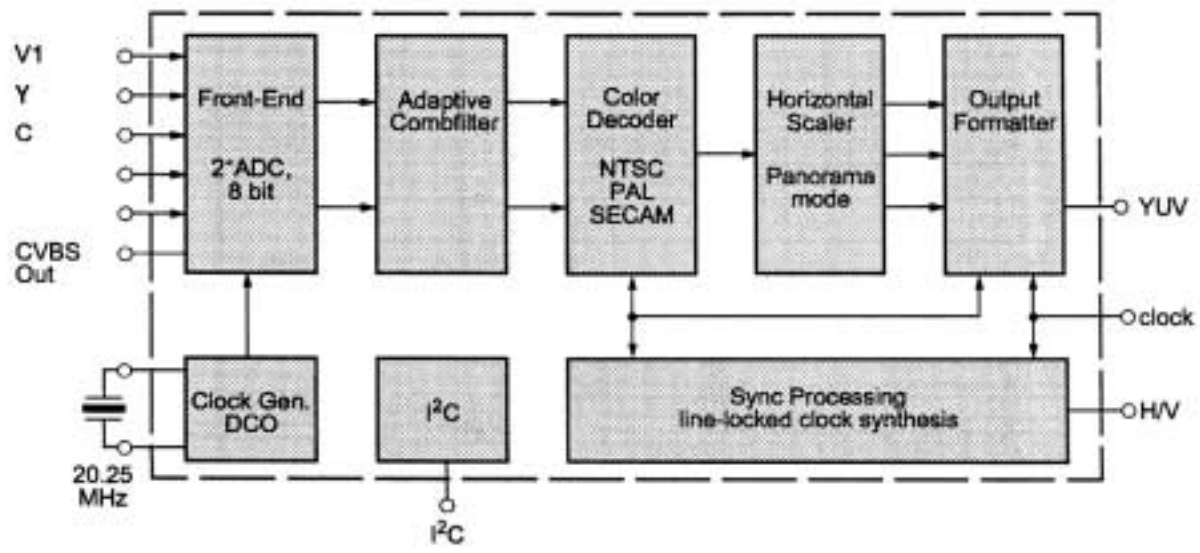
The VPC 3215C is a high-quality, single-chip video front-end, which is targeted for 4:3 and 16:9, 100/120Hz TV sets.

It can be conbined with other members of the DIGIT3000 IC family (such as CIP 3250A, DDP 3300A, TPU 3040) and/or it can be used with 3rd-party products.

(2) Features

- all-digital video processing
- high-performance adaptive 4H comb filter Y/C separator with adjustable vertical peaking
- multi-standard color decoder PAL/NTSC/SECAM including all substandards
- 1 composite, 1 S-VHS input, 1 composite output
- integrated high-quality A/D converters and associated clamp and AGC circuits
- multi-standard sync processing
- linear horizontal scaling (0.25 ... 4), as well as non-linear horizontal scaling 'panorama vision'
- PAL + preprocessing (VPC 3215)
- submicron CMOS technology

(3) Block Diagram



(4) Pin Descriptions

Pin 1 - Ground, Analog Front-End GND_F

Pin 2 - Ground, Analog Front-End GND_F

Pin 3 - CCU 5 MHz Clock Output CLK5

This pin provides a clock frequency for the TV microcontroller, e.g. a CCU 3000 controller, It is also used by the DDP 3300A display controller as a standby clock.

Pin 4 - Standby Supply Voltage V_{STDBY}

In standby mode, only the clock oscillator is active, GND_F should be ground reference. Please activate RESQ before powering-up other supplies Pins 6 and 5-XTAL1 Crystal Input

These pins are connected to an 20.25MHz crystal oscillator which is digitally tuned by integrated shunt capacitances. The CLK20 and CLK5 clock signals are derived from this oscillator. An external clock can be fed into XTAL1. In this case, clock frequency adjustment must be switched off.

Pin 7 - Ground, Analog Front-End GND_F

Pin 9 - Ground, Output Pad Circuitry GND_P

Pin 10 - Interlace Output, INTLC

This pin supplies the interlace information, 0 indicates first field, 1 indicates second field.

Pin 12 - Vertical Sync Pulse, VS
This pin supplies the vertical sync signal.
Pin 13 - Front Sync Pulse, FSY
This pin supplies the front sync information.
Pin 14 - Main Sync/Horizontal Sync Pulse MSY/HS
This pin supplies the horizontal sync pulse information in line-locked mode. In DIGIT3000 mode, this pin is the main sync input.
Pin 15 - Helper Line Output, Helper
This signal indicated a helper line in PAL + mode.
Pin 16 - Horizontal Clamp Pulse, HC
This signal can be used to clamp an external video signal, that is synchronous to the input signal. The timing is programmable.
Pin 17 - Active Video Output, AVO
This pin indicates the active video output data. The signal is clocked with the LLC1 clock.
Pin 18 - Double Output Clock, LLC2
Pin 19 - Output Clock, LLC1
This is the clock reference for the luma, chroma, and status outputs.
Pin 26 - Ground, Output Pad Circuitry GND_P
Pin 20 to 25,28,29 - Luma Output Y0-Y7
These output pins carry the digital luminance data. The data are clocked with the LLC1 clock.
Pin 30 - Main Clock Output CLK20
This is the 20.25MHz main clock output.
Pin 31 - Supply Voltage, Digital Circuitry V_{SUPD}
Pin 34 - Ground, Digital Circuitry GND_D
Pin 35 - Ground, Output Pad Circuitry GND_P
Pin 36 - Supply Voltage, Output Pad Supply V_{SUPP}
Pin 38 to 43,46,47 - Chroma Outputs C0-C7
These outputs carry the digital CrCb chrominance data. The data are clocked with the LL1 clock. The data are sampled at half the clock rate and multiplexed. The CrCb multiplex is reset for each TV line.
Pin 48 to 50 - Picture Bus Priority PR0-PR2
The Picture Bus Priority lines carry the digital priority selection signals. The priority interface allows digital switching of up to 8 sources to the back-end processor. Switching for different sources is prioritized and can be on a per pixel basis.
Pin 51 - Ground, Output Pad Circuitry GND_P
Pin 52 - VGAV-Input.
This pin is connected to the vertical sync signal of a VGA signal.
Pin 53 - Front-End/Back-End Data FPDAT
This pin interfaces to the DDP 3300A back-end processor. The information for the deflection drives and for the white drive control, i.e. the beam current limiter, is transmitted by this pin.
Pin 54 - Reset Input RESQ
A low level on this pin resets the VPC 32xx.
Pin 55 - I^2C Bus Data SDA
The pin connects to the I^2C bus data line.
Pin 57 - Test Input TEST
This pin enables factory test modes. For normal operation, it must be connected to ground.
Pin 59 - Ground, Analog Front-End GND
Pins 62,61,60,58 - Video 1-4
These are the analog video inputs. A CVBS or S-VHS luma signal is converted using the luma (Video 1) AD converter. The VIN1 input can also be switched to the chroma (Video 2) ADC. The input signal must be AC-coupled.
Pin 63 - Chroma Input CIN
This pin is connected to the S-VHS chroma signal. A resistive divider is used to bias the input signal to the middle of the converter input range. CIN can only be connected to the chroma (Video 2) A/D converter. The signal must be AC-coupled.
Pin 64 - Analog Video Output, VOUT
The analog video signal that is selected for the main (luma, CVBS) ADC is output at this pin. An emitter follower is required at this pin.
Pin 65 - Ground, Analog Shield Front-End GND
Pin 66 - Supply Voltage, Analog Front-End V
Pin 67 - Signal GND for Analog Input ISGND
This is the high quality ground reference for the video input signals.
Pin 68 - Reference Voltage Top VRT
Via this pin, the reference voltage for the A/D converters is decoupled. The pin is connected with 10uF/47nF to the Signal Ground Pin.

5-3. CIP3250A (Component Interface Processor)

(1) Description

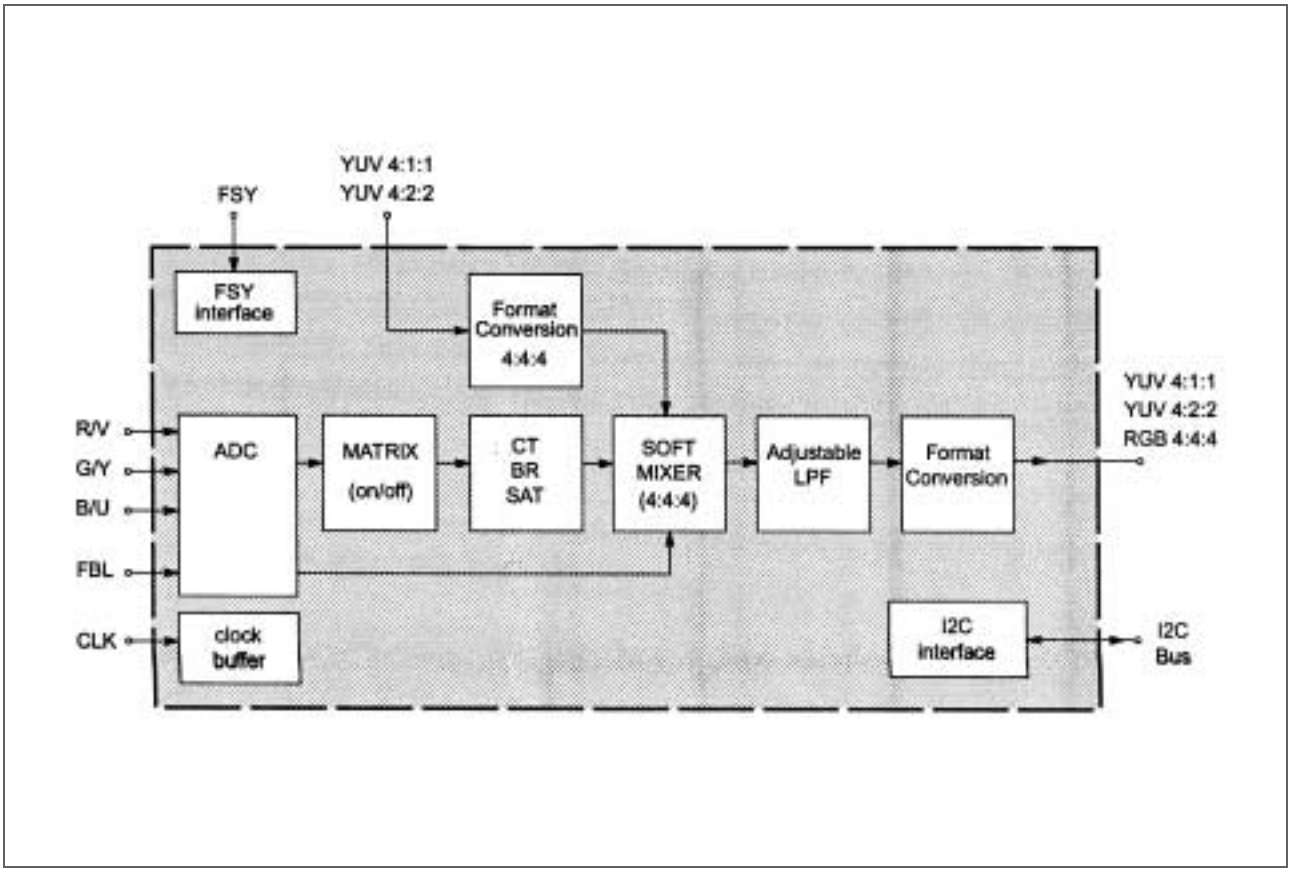
The CIP 3250A is a new CMOS IC that contains on a single chip the entire circuitry to interface analog YUV/RGB/ Fast Blank to a digital YUV system. The Fast Blank signal is used to control a soft mixer between the digitized RGB and an external digital YUV source. The CIP supports various output formats such as YUV 4:1:1/4:2:2 or RGB 4:4:4.

Together with the DIGIT 3000 (e.g. VPC 32xxA) or DIGIT 2000 (e.g. DTI 2250), an interface to a TV-scanrate conversion circuit and/or multi-media frame buffer can be obtained.

(2) Feature

- analog input for RGB or YUV and Fast Blank
- triple 8 bit analog to digital converters for RGB/YUV with internal programmable clamping
- single 6 bit analog to digital converter for Fast Blank singnal
- digital matrix RGB => YUV (Y, B-Y, R-Y)
- luma contrast and brightness correction for signals from analog input
- color saturation and hue correction for signals from analog input
- digital input for DIGIT 2000 or DIGIT 3000 formats
- digital interpolation to 4:4:4 format
- high quality soft mixer controlled by Fast Blank signal
- programmable delays to match digital YUV in and analog RGB/YUV
- variable low pass filters for YUV output
- digital output in DIGIT 2000 and DIGIT 3000 formats, as well as RGB 4:4:4
- I^2C bus interface
- clock frequency 13.5...20.25 MHz

(3) Block Diagram



(4) Pin Description

Pin 1 - STANDBY Input
Via this input pin, the standby mode of the CIP 3250A is enabled. A high level voltage switches all outputs to tristate mode, and power consumption is signigicantly reduced. When the IC IS returned to active mode, a reset is generated internally. Connect to VSS if not used.

Pins 2 to 9 - B7 to B0 Blue Output
In a stand alone application, where the CIP 3250A serces as an A/D-converter, these are the output for the digital Blue signal (pure binary) or the digital U signal (2's complement). Leave vacant if not used.

Pin 10 to 17 - GL7 to GL0 Green/Luma Output
At these outputs, the digital luminance signal is received in pure binary cided format for DIGIT 2000 and DIGIT 3000 applications. In a stand alone application, where the CIP 3250A serves as an A/D-converter, these are the outputs for the digital Green signal(pure binary) or the digital luma signal(pure binary). Leave vacant if not used.

Pin 18 - PVSS Output Pin Ground
This is the common ground connection of all output stages and must be connected to ground.
Note : All ground pins of the chip (i.e. 18,52,58,60,62,64,66 and 68) must be connected together low resistive. The layout of the PCB must take into consideration the need for a low-noise ground.

Pin 19 - PVDD Output Pin Supply + 5V/+3.3V
This pin supplies all output stages and must be connected to a positive supply voltage.
Note : The layout of the PCB must take into consideration the need for a low-noise supply. A bypass capacitor has to be connected between ground and PVDD

Pins 20 to 27 - RC7 to RC0 Red/Chroma Output
These are the outputs for the digital chroma signal in the DIGIT 3000 system, where U and V are multiplexed bytewise. In a DIGIT 2000 system, RC3 to RC0 and RC7 to RC4 carry the halfbyte(nibble) multiplex format. In a stand alone application, where the CIP 3250A serces as an AD-converter, these are the outputs for the digital Red signal(pure binary) or the digital chroma V signal (2's component). Leave vacant if not used.

Pin 29 - AVI Active Video Input
In a DIGIT 2000 application, this input can be connected to ground. In a DIGIT 3000 application, this input expects the DIGIT 3000 AVI signal. In a stand alone application, this input expects the VSYNC vertical sync pulse. Connect ground if not used.

Pin 30 - FSY Front Sync Input
In a DIGIT 2000 application, this input pin expects the DIGIT 2000 SKEW protocol. In a DIGIT 3000 application, this input expects the DIGIT 3000 FSY protocol. In a stand alone application, this unput expects the HSYNC horizontal sync pulse. Connect to ground if not used.

Pin 31 to 32 - SDA and SCL of I^2C-Bus
These pins connect to the I^2Cbus, which takes over the control of the CIP 3250A via the internal registers. The SDA pin is the data input/output, and the SCL pin is the clock input/output of I^2Cbus control interface. All registers are writerable(except address hex27) and readable.

Pin 33 to 35 - PRIO0 to PRIO2 Priority Bus
These pins connect to the Priority Bus of a DIGIT 3000 application. The Picture Bus Priority lines carry the digital priority selection signals. The priority interface allows digital switching of up to 8 sources to the backend processor. Switching for different sources is prioritized and can be on a per pixel basis. In all other applications, they must not be connected.

Pin 36 to 43 - C0 to C7 Chroma Input
These are the inputs for the digital chroma signal which can be received in binary offset or 2 's complement coded format. In a DIGIT 2000(4:1:1) system, C3 to C0 take the halfbyte (nibble) multiplex format. C7 to C4 have to be connected to ground. Within the DIGIT 3000(4:2:2) system, U and V are multiplexed bytewise. Connect to ground if not used.

Pin 44 to 51 - L0 to L7 Luma Input
These are the inputs for the digital luma signal which must be in pure binary coded format. Connect to ground if not used.

Pin 52 - DVSS Digital Ground
This is the common ground connection of all digital stages and must be connected to ground.
Note : All ground pins of the chip(i.e. 18, 52, 58, 60, 62, 64, 66, and 68) must be connected together low resistive. The layout of the PCB must take into consideration the need for a low-noise ground.

Pin 53 - DVDD Digital Supply +5V
This pin supplies all digital stages and must be connected to a positive supply voltage.
Note : The layout of the PCB must take into consideration the need for a low-noise supply. A bypass capacitor has to be connected between ground and DVDD.

Pin 54 - CLK Main Clock Input
This is the input for the clock signal. The frequency and vary in the range from 13.5MHz to 20.25MHz.

Pin 55 - RESQ Input
A low signal at this input pin generates a reset. The low-to-high transition of this signal should occur when the supply voltage is stable(power-on reset).

Pin 56 - TMODE Input
This pin is for test purposes only and must be connected to ground in normal operation.

Pin 57 - AVDD Analog Supply +5V
This is the supply voltage pin for the A/D converters and must be connected to a positive supply voltage.
Note : The layout of the PCB must take into consideration the need for a low-noise supply. A bypass capacitor has to be connected between ground and AVDD.

Pin 58 - AVSS Analog Ground
This is the ground pin for the A/D converters and must be connected to ground.
Note : All ground pins of the chip (i.e. 18,52,58,60,62,64, 66, and 68) must be connected together low resistive. The layout of the PCB must take into consideration the need for a low-noise ground.

Pin 59 - ADREF Connect External Capacitor
This pin should be connected to ground over a 10uF and a 100nF capacitor in parallel.

Pin 60 - SUBSTRATE
This is connected to the platform which carries the “die” and must be cvonnected to the ground.
Note : All ground pins of the chip(i.e. 18,52,58,60,62,64,66, and 68) must be connected together low resistive. The layout of the PCB must take into consideration the need for a low-noise ground.

Pin 61 - FB Analog Fast Blank Input
This input takes the DC-coupled analog Fast Blank signal. The amplitude is 1.0V maximum at 75 Ohms. Connect to ground if not used.

Pin 62 - GNDFB Analod Ground
This is the ground pin for the AD converter of the Fast Blank signal and has to be connected to ground.
Note : All ground pins of the chip (i.e. 18,52,58,60,62,64, 62,64,66 and 68) must be connected together low resistive. The layout of the PCB must take into consideration the need for a low-noise ground.

Pin 63 - BU Analog Blue/U Chroma Input
The input pin takes the AC-coupled analog compont signal Blue or U Chroma. The amplitude is 1.0V maximum at 75 Ohms and a coupling capacitor of 220 nF. Internally, the DC-offset of the input signal is adjusted via the programmable internal clamping circuit. Connect to ground if not used.

Pin 64 - GNDBU Analog Ground
This is the ground pin for the A/D converter of the Blue or U Chroma signal and must be connected to ground.
Note : All ground pins of the chip(i.e. 18,52,58,60,62,64,66, and 68) must be connected together low resistive. The layout of the PCB must take into consideration the need for a low-noise ground.

Pin 65 - GY Analog Green/Luma Input
This input pin takes the AC-coupled analog compinent signal Green or Luma. The amplitude is 1.0V maximum at 75 Ohms and a couplign capacitor of 220nF. Internally, the DC-offset of the input signal is adjusted via the programmable internal clamping circuit. Connect to ground if not used.

Pin 66 - GNDGY Analog Ground
This is the ground pin for the A/D converter of the Green or Luma signal and must be connected to ground.
Note : All ground pins of the chip(i.e. 18,52,58,60,62,64, 66, and 68) must be connected together low rresistive. The layout of the PCB must take into consideration the need for a low-noise ground.

Pin 67 - RV Analog Red/V Chroma Input
This input pin takes the AC-coupled analog component signal Red or V Chroma. The amplitude is 1.0V maximum at 75ohms and a coupling capacitor of 220nF. Internally, the DC-offset of the input signal is adjusted via the programmable internal clamping circuit. Connect to ground if not used.

Pin 68 - GNDRY Analog Ground
This is the ground pin for the A/D converter of the Red or V Chroma signal and must be connected to ground.
Note : All ground pins of the chip (i.e. 18,52,58,62,64,66, and 68) must be connected together low resistive. The layout of the PCB must take into consideration the need for a low-noise ground.

5-4. MSM5412222 (262, 214-Word X 12-Bit Field Memory)

(1) DESCRIPTION

The OKI MSM541222 is a high performance 3-Mbit, 256K x 12-bit, Field Memory. It is especially designed for high-speed serial access applications such as HDTVs, conventional NTSC TVs, VTRs, digital movies and Multi-media systems. MSM541222 is a FRAM for wide or low or low end use in general commodity TVs and VTRs exclusively. MSM5412222 is not designed for high end use in medical systems, professional graphics systems which require long term picture storage, data storage systems and others. Two or more MSM541222s can be cascaded directly without any delay devices between them. (Cascading provides larger storage depth or a longer delay).

Each of the 12-bit planes has separate serial write and read ports. These employ independent control clocks to support asynchronous read and write operations. Different clock rates are also supported, which allow alternate data rates between write and read data streams.

The MSM5412222 provides high speed FIFO, First-In First-Out, operation without external refreshing: MSM5412222 refreshes its DRAM storage cells automatically, so that it appears fully static to the users. Moreover, fully static type memory cells and decoders for serial access enable the refresh free serial access operation, so that serial read and / or write control clock can be halted high or low for any duration as long as the power is on. Internal conflicts of memory access and refreshing operations are prevented by special arbitration logic.

The MSM5412222's function is simple, and similar to a digital delay device whose delay-bit-length is easily set by reset timing. The delay length, and the number of read delay clocks between write and read, is determined by externally controlled write and read reset timings.

Additional SRAM serial registers, or line buffers for the initial access of 256 x 12-bit enable high speed first-bit-access with no clock delay just after the write of read reset timings.

Additionally, the MSM5412222 has a write mask function or input enable function (IE), and read-data skipping function or output enable function (OE). The differences between write enable (WE) and input enable (IE), and between read enable (RE) and output enable (OE) are that WE and RE can stop serial write / read address increments, but IE and OE cannot stop the increment, when write / read clocking is continuously applied to MSM5412222. The input enable (IE) function allows the user to write into selected locations of the memeory only, leaving the reset of the memory contents unchanged. This facilitates data processing to display a " picture in picture" on a TV screen.

The MSM5412222 is similar in operation and functionality to OKI 1-Mbit Field Memory MSM514222B and 2-Mbit Field Memory MSM518222. Three MSM514222Bs or one MSM514222B plus one MSM518222 can be replaced simply by one MSM5412222.

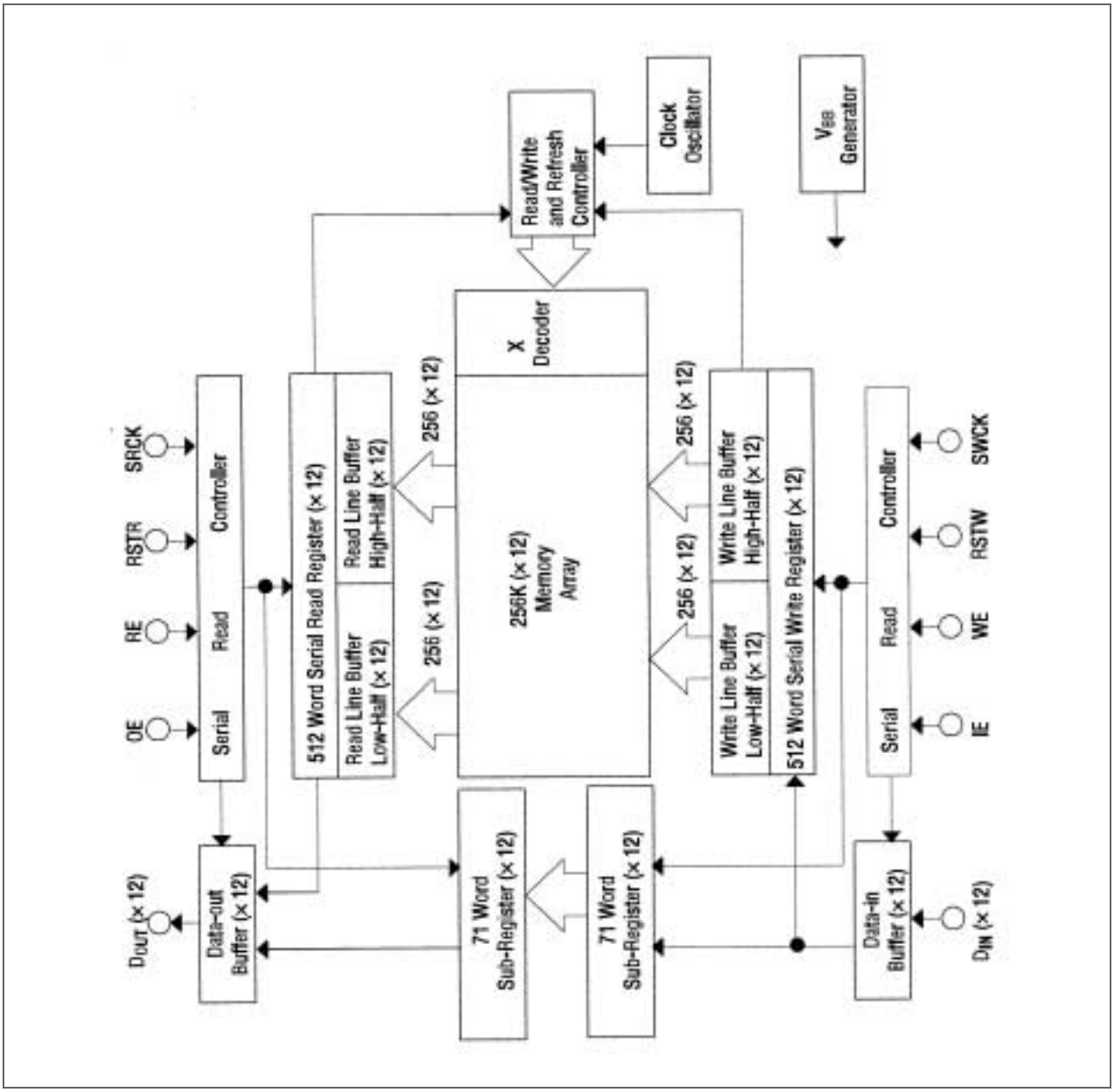
(2) FEATURES

- Single power supply : 5V 10%
- 512 Rows x 512 Columns x 12 bits
- Fast FIFO (First-In First-Out) operation
- High speed asynchronous serial access

  Read / write cycle time 25 ns / 30 ns

  Access time 23 ns / 25 ns
- Direct cascading capability
- Write mask function (Input enable control)
- Data skipping function (Output enable control)
- Self refresh (No refresh control is required)

(3) BLOCK DIAGRAM



(4) Pin Description

Pin No.	Pin Name	Function
17	SWCK	Serial Write Clock
28	SRCK	Serial Read Clock
20	WE	Write Enable
25	RE	Read Enable
21	IE	Input Enable
24	OE	Output Enable
18	RSTW	Write Resert Clock
27	RSTR	Read Reset Clock
2,3,5,6,7,8,10,11,12,13,15,16	$D_{IN}0 \sim D_{IN}11$	Data Input
29,30,32,33,34,35,37,38,39,40,42,43	$D_{OUT}0 \sim D_{OUT}11$	Data Output
22,23	Vcc	Power Supply (5V)
1,31,44	Vss	Ground (0V)
4,9,14,19,26,36,41	NC	No Connection

5-5. DDP 3310B (Display and Deflection Processor)

(1) Description

The DDP 3310B is a single-chip digital Display and Deflection Processor designed for high-quality backend applications in 100/120MHz TV sets with 4:3- or 16:9 picture tubes. The IC can be combined with members of the DIGIT 3000 IC family (VPC 32xx, TPU 3040), or it can be used with third-party products. The IC contains the entire digital video component and deflection processing and all analog interface components.

(2) Feature

Video processing

- linear horizontal scaling (0.25 ... 4)
- non-linear horizontal scaling “panoramavision”
- dynamic peaking
- soft limiter (gamma correction)
- color transient improvement
- programmable RGB matrix
- picture frame generator
- two analog RGB/Fast-Blank inputs

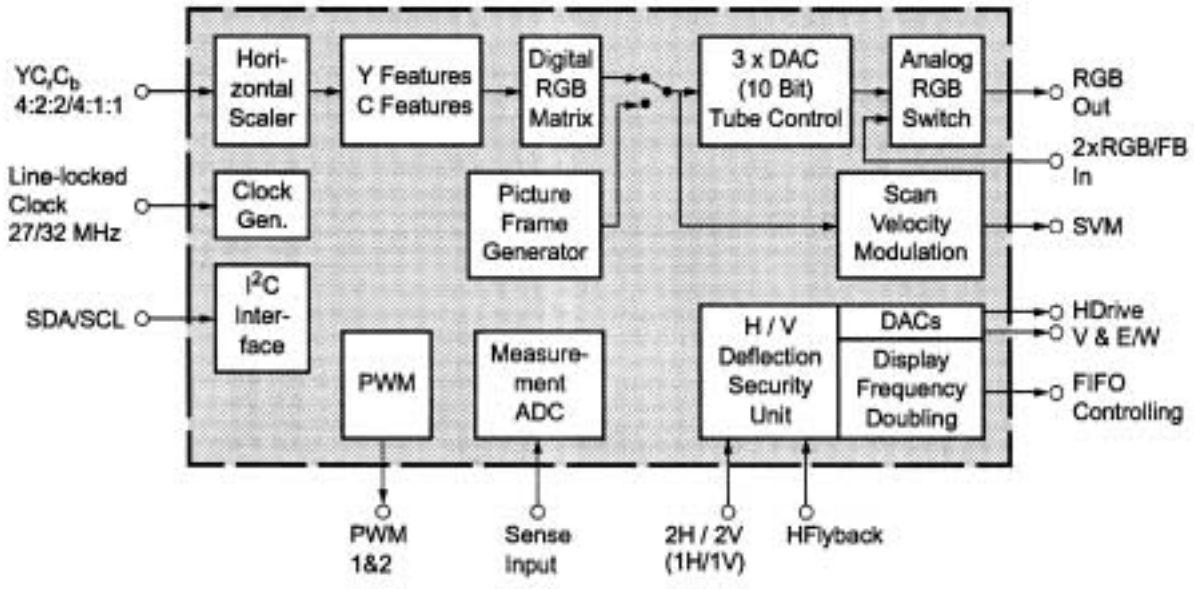
Deflection processing

- scan velocity modulation output
- high-performance H/V deflection
- EHT compensation for vertical / East/West
- soft start/stop of H-Drive
- vertical angle and bow
- differential vertical output
- horizontal and vertical protection circuit
- adjustable horizontal frequency for VGA/SVGA dislay

Miscellaneous

- selectable 4:1:1/4:2:2 YC_rC_b input
- selectable 27/32-MHz line-locked clock input
- crystal oscillator for horizontal protection
- automatic picture tube adjustment(cutoff, whitedrive)
- single 5-V power supply
- hardware for simple 50/60-Hz to 100/120-Hz conversion (display frequency doubling)
- two I^2C-controlled PWM outputs
- beam current limiter

(3) Block Diagram



(4) Pin Description

Pin 1 - Supply Voltage, Output Pin Driver **VSUPP***
This pin is used as supply for the following digital output pins : FIFORRD, FIFORD, FIFOWR, FIFORWR.

Pin 2 - Ground, Output Pin Driver **GNDP***
Output Pin Driver Reference

Pin 3 - Sync Signal Input **VS2**
Additional pin for the vertical sync information. Via I^2C Register the used vertical sync can be switched between the inputs VS2 and VS(Pin 64)

Pin 4 - Reset for FIFO Read Counter **FIFORRD**
This signal is active-High and resets the read counter in the display frequency doubling FIFO.

Pin 5 - Read Enable for FIFO **FIFORD**
This signal is active-High and enabels the read counter in the display frequency doubling FIFO.

Pin 6 - Write Enable for FIFO **FIFOWR**
This signal is active-High and enables the write counter in the display frequency doubling FIFO.

Pin 7 - Reset for FIFO Write Counter **FIFOWR**
This signal is active-High and enables the write counter in the display frequency doubling FIFO.

Pin 8 - Horizontal Drive **HOUT**
This open-drain output supplies the drive pulse for the horizontal output stage. A pull-up resistor has to be used.

Pin 9 - Horizontal Flyback Input **HFLB**
Via this pin, the horizontal flyback pulse is supplied to the DDP 3310B.

Pin 10 - Safety Input **SAFETY**
This input has two thresholds. A signal between the lower and upper threshold means normal function. Other signals are detected as malfunction.

Pin 11 - Vertical Protection Input **VPROT**
The vertical protection circuitry prevents the picture tube from burn-in in the event of a malfunction of the vertical deflection stage. If the peak-to-peak value of the vertical sawtooth signal is too small, the RGB output signals are blanked.

Pin 12 - H-Drive Frequency Range Select **FREQSEL**
This pin selects the frequency range for the horizontal drive signal.

Pin 13 - Clock Select 40.5 or 27/32 MHz**CM1**
Low level selects 27/32 MHz, High level selects 40.5 MHz

Pin 14 - Clock Select 40.5 or 27/32 MHz**CM0**
Low level selects 27 MHz, High level selects 32 MHz

Pin 15 - Range Switch2 for Measuring ADC **RSW2**
This pin is an open-drain pull-down output. During cutoff measurement the switch is off. During white drive measurement the switch is on. Also during the rest of time it is on.

Pin 16 - Range Switch 1 or Second Input for Measuring ADC **RSW1**
This pin is an open-drain pull-down output. During cutoff and white-drive measurement, the switch is off. During the rest of time it is on. The RSW1 pin can be used as second measurement ADC input.

Pin 17 - Measurement ADC Input **SENSE**
This is the input of the analog to digital converter for the picture and tube measurement. Three measurement ranges are selectable with RSW1 and RSW2

Pin 18 - Measurement ADC Reference Input **MGND**
This is the ground reference for the measurement A/D converter.

Pin 19 - Vertical Sawtooth Output **VERT+(19)**
This pin supplies the drive signal for the vertical output stage. The drive signal is generated with 15-bit precision. The analog voltage is generated by a 4-bit current DAC with external resistor (6 kΩ for proper operation) and uses digital noise-shaping.

Pin 20 - Vertical Sawtooth Output inverted **VERT-**
This pin supplies the inverted signal of VERT+.

Together with this pin, it can be used to drive symmetrical deflection amplifiers.

Pin 21 - East/West Parabola Output **EW**
This pin supplies the parabola signal for the East/West correction. The drive signal is generated with 15-bit precision. The analog voltage is generated by a 4-bit current DAC with external resistor and uses digital noise-shaping.

Pin 22 - DAC Current Reference **XREF**
External reference resistor for DAC output currents, typical 10 kΩ, to adjust the output current of the D/A converters. (see recommended operation conditions).
This resistor has to be connected to analog fround as closely as possible to the pin.

Pin 23 - Scan Velocity Modulation Output **SVM**
This output delivers the analog SVM signal. The D/A converters. At zero signal the output current is 50% of the maximum output current.

Pin 24,25,26 - Analog RGB Output **ROUT, GOUT, BOUT**
These pins are the analog Red/Green/Blue outputs of the back-end. The outputs are current sinks.

Pin 27 - Ground, Analog Back-end **GNDO***
This pin has to be connected to the analog supply voltage. No supply current for the digital stages should flow through this line.

Pin 28 - Supply Voltage, Analog Back-end **VSUPO***
This pin has to be connected to the analog supply voltage. No supply current for the digital stages should flow through this line.

Pin 29 - DAC Reference Decouplign/Beam Current Safety **VRD/BCS**
Via this pin, the DAC reference voltage is decoupled by an external capacitor. The DAC output currents depend on this voltage, therefore a pull-down transistor can be used to shut off all beam currents. A decoupling capacitor of 4.7uF in parallel to 100uF (low inductance) is required.

Pin 30, 34 - Fast-Blank Input **FBLIN1/2**
These pins are used to switch the RGB outputs to the external analog RGB inputs. FBLIN1 switches the RIN1, GIN1 and BIN1 inputs, FBLIN2 switches the RIN2, GIN2 and BIN2 inputs. The active level (Low or High) can be selected by software.

Pin 31, 32, 33 - Analog RGB Input1 **RIN1, GIN1, BIN1**
These pin are used to insert an external analog RGB signal, e.g. from a SCART connector which can by switched to the analog RGB outputs with the Fast-Blank signal. The analog back-end provides separate brightness and contrast settings for the external analog RGB signals.

Pin 35, 36, 37 - Analog RGB Input2 **RIN2, GIN2, BIN2**
These pins are used to insert an external analog RGB signal, e.g. from a SCART connector which can by switched to the analog RGB outputs with the Fast-Blank signal. The analog back-end provides separate brightness and contrast settings for the external analog RGB signals.

Pin 38 - Test Input **TEST**
This pin enables factory test modes. For normal operation it must be connected to ground.

Pin 39 - Reset Input **RESQ**
A low level on this pin resets the DDP 3310B.

Pin 40 - Adjustable DC Output 1 **PWM1**
This output delivers a DC voltage with a resolution of 8 bit, adjustable over the I^2C bus. The output is driven by a push-pull stage. The PWM frequency is appr 79.4MHz. For a ripple-free voltage a first order lowpass filter with a corner frequency < 120 Hz should be applied.

Pin 41 - Adjustable DC Output 2 **PWM2**
See pin 40.

Pin 42 - Half-Contrast Input **HCS**
Via this input pin the output level of the D/A-converted internal RGB signals can be reduced by 6dB. Inserted external analog RGB signals remain unchanged.

Pin 43...50 - Picture Bus Chroma **C0...C7**
The Picture Bus Chroma lines carry the multiplexed color component data. For the 4:1:1 input signal (4-bit chroma) the pins C4...C7 are used.

Pin 51 - Supply Voltage, Digital Circuitry **VSUPD***

Pin 52 - Ground, Digital Circuitry **GNDD***
Digital Circuitry Input Reference

Pin 53 - Main Clock Input **LLC2(53)**
This is the input for the line-locked clock signal. The frequency can be 27, 32, or 40.5 MHz.

Pin 54...61 - Picture Bus Luma **Y0...Y7**
The Picture Bus Luma lines carry the digital luminance data.

Pin 62 - Line-Locked Clock Input **LLC1**
This is the reference clock for the single frequency input sync signals required in a FIFO application. The frequency can be 13.5, 16, or 20.25 MHz.

Pin 63 - Sync Signal Input **HS**
This pin gets the horizontal sync information. Either single or double horizontal frequency or VGA horizontal sync signal.

Pin 64 - Sync Signal Input **VS**
This pin gets the vertical sync informatoion. Either single or double vertical frequency or VGA vertical sync signal.

Pin 65, 66 - Crystal Output / Input **XTAL2 / XTAL1**
These pins are connectecd to an 5-MHz crystal oscillator. The security unit for the HOUT signal uses this clock signal as reference.

Pin 67 - I^2C Data Input/Output **SDA**
Via this pin the I^2C - bus data are written to or read from the DDP 3310B.

Pin 68 - I^2C Clock Input **SCL**
Via this pin, the clock signal for the I^2C-bus will be supplied. The signal can be pulled down by an internal transistor.

*** Application Note :**
All ground pins should be connected separeately with short and low-resistive lines to a central power supply ground. Accordingly, all supply pins should be connected separately with short and low-resistive lines to the power supply. Decoupling capacitors from VSUPP to GNDP, VSUPD to GNDD, and VSUPO to GNDO are recommended to be placed as closely as possible to the pins.

6. IC DC Voltage Charts

*** Input signal** ------- PAL/CH5 - Video : 8 step colour bar (87% AM)
Audio : 1KHz sinewave (60% FM)

*** User's control condition** ------- Contrast, Brightness, Colour, Volume Controls-max.

*** Line voltage** ------- AC 220 ~ 240V, 50Hz

*** All the voltage in each point are measured with Multimeter.**

1. TDA 8172 (I301) : Vertical

Pin No.	1	2	3	4	5	6	7
V(DC)	0.2	+12.0	-8.1	-12.0	0	10.2	0.2

2. MSP 3410D (I606)

Pin No.	1	2	3	4	5	6	7	8	9	10
V(DC)	2.6	0	0	0	0	0	4.9	0	5.0	5.0

Pin No.	11	12	13	14	15	16	17	18	19	20
V(DC)	2.4	2.4	0	0.2	0.2	0.2	0.2	4.9	0	0.2

Pin No.	21	22	23	24	25	26	27	28	29	30
V(DC)	0	0	0	4.9	0.1	0.1	0	0.1	0.1	0

Pin No.	31	32	33	34	35	36	37	38	39	40
V(DC)	0.1	0	3.7	3.7	0	3.7	3.7	6.9	8.0	6.9

Pin No.	41	42	43	44	45	46	47	48	49	50
V(DC)	0	3.7	3.7	3.7	0	3.7	3.7	0	3.7	3.7

Pin No.	51	52	53	54	55	56	57	58	59	60
V(DC)	0	3.7	3.7	2.6	3.7	0	5.0	1.5	1.5	0.3

Pin No.	61	62	63	64
V(DC)	0	2.2	2.1	0.3

3. TDA 4470-M (I101)

Pin No.	1	2	3	4	5	6	7	8	9	10
V(DC)	3.1	3.1	3.4	0	1.1	2.4	2.4	2.1	0	1.1

Pin No.	11	12	13	14	15	16	17	18	19	20
V(DC)	2.6	2.1	4.4	3.8	2.6	0	4.2	2.3	3.4	3.3

Pin No.	21	22	23	24	25	26	27	28
V(DC)	3.3	2.7	4.8	2.1	2.1	0.7	0.1	0

4. TA8256BH (I605, I606)

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12
V(DC)	2.0	2.0	0	2.0	0	9.0	0	13.0	26.5	0	13.0	13.0

5. ST92195 (I701)

Pin No.	1	2	3	4	5	6	7	8	9	10
V(DC)	4.9	4.8	0	0	0	0	0	0	0	0.2

Pin No.	11	12	13	14	15	16	17	18	19	20
V(DC)	5.0	0	0	0	0.4	0.5	0.4	0	5.0	5.0

Pin No.	21	22	23	24	25	26	27	28	29	30
V(DC)	5	0.2	0	0	5.0	0.2	1.8	0.2	2.2	0.3

Pin No.	31	32	33	34	35	36	37	38	39	40
V(DC)	5.0	5.0	0.3	1.4	0	0	0	2.0	5.0	0.5

Pin No.	41	42	43	44	45	46	47	48	49	50
V(DC)	-0.3	0	0	0.1	5.0	0	0	0	0	2.3

Pin No.	51	52	53	54	55	56
V(DC)	2.3	5.0	4.9	0.2	2.7	0.1

6. AT24C16-10PC (I702)

Pin No.	1	2	3	4	5	6	7	8
V(DC)	0	0	5.0	0	5.0	5.0	0	5.0

7. PW105

Pin No.	1	2	3	4	5	6	7	8	9	10
V(DC)	0	5.0	1.1	0.8	0	1.8	0	0	0	0.5

Pin No.	11	12	13	14	15	16	17	18
V(DC)	-0.3	0	4.9	0	0.4	0.4	0.4	9.0

8. PW104

Pin No.	1	2	3	4	5	6	7	8	9	10
V(DC)	0.8	0	0	0.8	0	0	NC	0	0	0

Pin No.	11	12	13	14	15	16	17	18
V(DC)	5	5	71	0.2	0	2.8	2.8	2.8

7. Service Parts List

Caution ⓡ is recommendable spare part.

⚠ is safety component, so it must be used the same component.

LOC	PART-CODE	PART-NAME	PART-DESC
ZZ100 ⓡ	48B3822D05	TRANSMITTER REMOCON	R-22D05
ZZ120	PEBCSHD018	COVER BACK AS	DSC-3270E
M211 ⚠	4952101201	COVER BACK	HIPS
M541	4855415800	SPEC PLATE	150ART P/E FILM (C/TV)
M781	4857817612	CLOTH BLACK	FELT 250X20X0.7
M782	4857817630	CLOTH BLACK	FELT 400X20X0.7
ZZ130	PEPKCPD018	PAPKING AS	DSC-3270E
M641	6520010100	STAPLE PIN	AUTO W65
M681	4856812400	BAND	18MM X 3M
M801	4958000600	BOX CARTON	DW-4
M811	4958100900	PAD	EPS
M821	4858218700	BAG P.E	FOAM+LDPE T0.5X1880X1380
ZZ131	48519A4410	CRT GROUND NET	3301H-1015-2P
ZZ132 ⚠	58G0000114	COIL DEGAUSSING	DC-3200
ZZ133	58GD000002	COIL TILT	DSC-3670N
ZZ140	PECACAD018	CABINET AS	DSC-3270E
M201A	4956000100	SCREW CRT FIX	SWRM10A L=35
M201B	4856215404	WASHER RUBBER	CR T4.0
M201C	7178301211	SCREW TAPTITE	TT2 WAS 3X12 MFZN
M201D	7178301211	SCREW TAPTITE	TT2 WAS 3X12 MFZN
M201E	7178301211	SCREW TAPTITE	TT2 WAS 3X12 MFZN
M201F	7178301211	SCREW TAPTITE	TT2 WAS 3X12 MFZN
M211A	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK
M211C	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK
M211D	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK
M211E	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK
M353	97P4602700	CLAMP CORD	POLYETHYLENE BLK
M353A	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK
M371	4853745100	RETA PLATE	PVC T0.5
M481	4954800300	BUTTIN POWER	ABS PAINT
M481A	4856716000	SPRING	SWPA PIE0.5
M561	4955600100	MARK BRAND	AL T1.0 DIA-CUTTING
M682	4856816300	CLAMP WIRE	NYLON 6 (V0)
S601	4958301110	SPEAKER L	SS-78128F05(L)
S601A	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK
S602	4958300110	SPEAKER UNIT	5W 8OHM H114/100400A
S602A	7178301211	SCREW TAPTITE	TT2 WAS 3X12 MFZN
S603	4958301010	SPEAKER R	SS-78128F05(R)
S603A	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK
ZZ200	PEFMSJD018	MASK FRONT AS	DSC-3270E
M201	4952001101	MASK FRONT	HIPS PAINT
M201D	4857817630	CLOTH BLACK	FELT 400X20X0.7
M201E	4857817610	CLOTH BLACK	FELT 300X20X0.7
ZZ290	PEMPMSD018	PCB MAIN	DSC-3270E
		MANUAL AS	
C453	CMXL2E124K	C MYLAR	250V MEU 0.12MF K
C856	CEYF1V222C	C ELECTRO	35V RUS 2200MF (16X31.5)
C857	CEYF1V332C	C ELECTRO	35V RUS 3300MF (18*35.5)
C863 ⚠	CH1FFF472M	C CERA AC	AC400V 4700PF F DE7150F
D850	DR2KY——	DIODE AVALANCHE	R 2-KY (TAPPING)

LOC	PART-CODE	PART-NAME	PART-DESC
D854	DUF5404LS-	DIODE	UF5404L-5702 400V 3A
I101	1TDA4470M-	IC IF	TDA4470-M
I102	1KA7805—	IC REGULATOR	KA7805
I601	1MSP3410D-	IC AUDIO	MSP3410D
I602	1DP3519AA2	IC AUDIO DOLBY	DPL3519A-A2
I604	1KA4558—	IC AMP	KA4558
I605	1TA8256BH-	IC AUDIO AMP	TA8256BH
I605A	4857027534	HEAT SINK	AL EXBK
I605B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN
I606	1TA8256BH-	IC AUDIO AMP	TA8256BH
I606A	4857027534	HEAT SINK	AL EXBK
I606B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN
I701	1ST92T195-	IC MICOM OTP	ST92T195B
I701A	4959301310	SOCKET IC	LSC-656-T051-00
I702	124LC16B1B	IC MEMORY	24LC16B1B
I805	1KA7812P—	IC REGULATOR	KIA7812P
I805A	4857031201	HEAT SINK	AL 6063S
I805B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN
I806	1KA7809—	IC REGULATOR	KA7809
I807	1KA7805—	IC REGULATOR	KA7805
I810	1T0P224Y—	IC AUDIO POWER	TOP224Y
I810A	4957000701	HEAT SINK	AL EX
I810B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN
I811 ⚠	1LTV817C—	IC PHOTO COUPLER	LTV-817C
I813	1LA6515—	IC OP AMP	LA6515
L103	5.80E+42	COIL AFT	TRF-A005
L850	58C4500079	COIL CHOKE	L-45
M381	4853812800	FRAME MAIN PCB	FR HIPS BK
M681	4956800100	CLAMP WIRE	STL-J-600-6M-01
PA101	4950708010	CONNECTOR	YH025-08+YST250+ULW=400
PA102	4950705007	CONNECTOR	YH025-05+YST250+ULW=300
PA601	4950704017	CONNECTOR	YH025-04+YST250+USW=450
PA801	4950710010	CONNECTOR	YH025-10+YST250+ULW=90
PA802	4950706021	CONNECTOR	YH025-06+YST250+ULW=90
PA803	4950710010	CONNECTOR	YH025-10+YST250+ULW=90
PW104	4859281320	CONN WAFER	TAC-L18X-A3
PW105	4859281320	CONN WAFER	TAC-L18X-A3
PW106	4859280820	CONN WAFER	TAC-L13X-A3
PW107	4859280820	CONN WAFER	TAC-L13X-A3
PW806	4859238620	CONN WAFER	YPW500-02
SF101	5PK3953M—	FILTER SAW	K3953M
SF102	5PK9650M—	FILTER SAW	K9650M
T804 ⚠	5DP2828A2-	TRANS FORMER	DTS-2828A2
U101	4859719930	TUNER VARACTOR	DT5-BF18D
X601	5XE18R432E	CRYSTAL QUARTZ	HC-49/U 18.43200MHZ 30PPM
ZZ200	PEMPJ2D018	PCB MAIN CHIP B AS	DSC-3270E
CC101	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012
CC102	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012
CC103	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012
CC104	HCQK220JCA	C CHIP CERA	50V CH 22PF J 2012
CC106	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012

LOC	PART-CODE	PART-NAME	PART-DESC
CC107	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CC108	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC109	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CC110	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC112	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC114	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC118	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012
CC119	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC120	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC121	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC601	HCQK509DCA	C CHIP CERA	50V CH 5PF D 2012
CC602	HCQK509DCA	C CHIP CERA	50V CH 5PF D 2012
CC603	HCBK223KCA	C CHIP CERA	50V X7R 0.022MF K 2012
CC604	HCBK471KCA	C CHIP CERA	50V X7R 470PF K 2012
CC605	HCBK471KCA	C CHIP CERA	50V X7R 470PF K 2012
CC606	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CC607	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CC608	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC609	HCQK101JCA	C CHIP CERA	50V CH 100PF J 2012
CC610	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC612	HCQK101JCA	C CHIP CERA	50V CH 100PF J 2012
CC613	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012
CC614	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC615	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012
CC616	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012
CC617	HCBK392KCA	C CHIP CERA	50V X7R 3900PF K 2012
CC618	HCBK392KCA	C CHIP CERA	50V X7R 3900PF K 2012
CC619	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CC620	HCBK223KCA	C CHIP CERA	50V X7R 0.022MF K 2012
CC621	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC622	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC624	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC625	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC626	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC627	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC701	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012
CC702	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012
CC704	HCBK472KCA	C CHIP CERA	50V X7R 4700PF K 2012
CC705	HCBK222KCA	C CHIP CERA	50V X7R 2200PF K 2012
CC706	HCQK220JCA	C CHIP CERA	50V CH 22PF J 2012
CC707	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC708	HCQK220JCA	C CHIP CERA	50V CH 22PF J 2012
CC709	HCQK820JCA	C CHIP CERA	50V CH 82PF J 2012
CC710	HCBK472KCA	C CHIP CERA	50V X7R 4700PF K 2012
CC711	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC713	HCQK820JCA	C CHIP CERA	50V CH 82PF J 2012
CC716	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012
CC717	HCBK102KCA	C CHIP CERA	50V X7R 1000PF K 2012
CC718	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC719	HCFK224ZCA	C CHIP CERA	50V Y5V 0.22MF Z 2012
CC720	HCBK473KCA	C CHIP CERA	50V X7R 0.047MF K 2012
CC721	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012

LOC	PART-CODE	PART-NAME	PART-DESC
CC723	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC801	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC802	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC803	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC804	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
CC805	HCBK103KCA	C CHIP CERA	50V X7R 0.01MF K 2012
RC103	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
RC104	HRFT333JCA	R CHIP	1/10 33K OHM J 2012
RC106	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC107	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
RC108	HRFT153JCA	R CHIP	1/10 15K OHM J 2012
RC109	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012
RC110	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
RC111	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
RC112	HRFT562JCA	R CHIP	1/10 5.6K OHM J 2012
RC113	HRFT563JCA	R CHIP	1/10 56K OHM J 2012
RC128	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
RC130	HRFT151JCA	R CHIP	1/10 150 OHM J 2012
RC131	HRFT153JCA	R CHIP	1/10 15K OHM J 2012
RC132	HRFT153JCA	R CHIP	1/10 15K OHM J 2012
RC133	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
RC136	HRFT751JCA	R CHIP	1/10 750 OHM J 2012
RC137	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC139	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012
RC602	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
RC603	HRFT473JCA	R CHIP	1/10 47K OHM J 2012
RC604	HRFT223JCA	R CHIP	1/10 22K OHM J 2012
RC605	HRFT223JCA	R CHIP	1/10 22K OHM J 2012
RC606	HRFT473JCA	R CHIP	1/10 47K OHM J 2012
RC622	HRFT000-CA	R CHIP	1/10 0 OHM 2012
RC623	HRFT153JCA	R CHIP	1/10 15K OHM J 2012
RC624	HRFT682JCA	R CHIP	1/10 6.8K OHM J 2012
RC625	HRFT682JCA	R CHIP	1/10 6.8K OHM J 2012
RC626	HRFT113JCA	R CHIP	1/10 11K OHM J 2012
RC627	HRFT113JCA	R CHIP	1/10 11K OHM J 2012
RC702	HRFT202JCA	R CHIP	1/10 2K OHM J 2012
RC708	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012
RC712	HRFT562JCA	R CHIP	1/10 5.6K OHM J 2012
RC715	HRFT153JCA	R CHIP	1/10 15K OHM J 2012
RC716	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
RC717	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
RC718	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012
RC719	HRFT562JCA	R CHIP	1/10 5.6K OHM J 2012
RC720	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
RC729	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC730	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC731	HRFT683JCA	R CHIP	1/10 68K OHM J 2012
RC732	HRFT683JCA	R CHIP	1/10 68K OHM J 2012
RC733	HRFT563JCA	R CHIP	1/10 56K OHM J 2012
RC736	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012
RC737	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC738	HRFT101JCA	R CHIP	1/10 100 OHM J 2012

LOC	PART-CODE	PART-NAME	PART-DESC
RC739	HRFT362JCA	R CHIP	1/10 3.6K OHM J 2012
ZZ200	PEMPJ0D018	PCB MAIN (RHU) AS	DSC-3270E
C110	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK
C118	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK
C614	CEXF1V102V	C ELECTRO	35V RSS 1000MF (13X25) TP
C615	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK
C618	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP
C620	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK
C656	CEXF1V102V	C ELECTRO	35V RSS 1000MF (13X25) TP
C657	CEXF1V102V	C ELECTRO	35V RSS 1000MF (13X25) TP
C658	CEXF1V102V	C ELECTRO	35V RSS 1000MF (13X25) TP
C663	CEXF1V102V	C ELECTRO	35V RSS 1000MF (13X25) TP
C664	CEXF1V102V	C ELECTRO	35V RSS 1000MF (13X25) TP
C671	CEXF1V102V	C ELECTRO	35V RSS 1000MF (13X25) TP
C705	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP
C893	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK
C894	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK
C895	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK
C896	CEXF2G220V	C ELECTRO	400V RSS 22MF (16X25) TP
ZZ200	PEMPJBD018	PCB MAIN M-10 AS	DSC-3270E
E001	4856310600	EYE LET	BSR T0.2 (R2.3)
E002	4856310600	EYE LET	BSR T0.2 (R2.3)
E003	4856310600	EYE LET	BSR T0.2 (R2.3)
E004	4856310600	EYE LET	BSR T0.2 (R2.3)
PW101	485923162S	CONN WAFER	YW025-03 (STICK)
PW102	485923162S	CONN WAFER	YW025-03 (STICK)
PW602	485923162S	CONN WAFER	YW025-03 (STICK)
PW603	485923162S	CONN WAFER	YW025-03 (STICK)
PW604	485923172S	CONN WAFER	YW025-04 (STICK)
PW605	485923182S	CONN WAFER	YW025-05 (STICK)
PW701	485923162S	CONN WAFER	YW025-03 (STICK)
PW702	485923192S	CONN WAFER	YW025-06 (STICK)
PW807	485923162S	CONN WAFER	YW025-03 (STICK)
R118	RS01Z100J-	R M-OXIDE FILM	1W 10 OHM J (TAPPING)
R850	RS02Z102J-	R M-OXIDE FILM	2W 1K OHM J (TAPPING)
ZZ200	PEMPJRD018	PCB MAIN RADIAL AS	DSC-3270E
C100	CXRH1H150J	C CERA	RH 50V 15PF J (TAPPING)
C101	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
C103	CEXF1H339V	C ELECTRO	50V RSS 3.3MF (5X11) TP
C104	CXCH1H220J	C CERA	50V CH 22PF J (TAPPING)
C105	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
C106	CCXB1H471K	C CERA	50V B 470PF K (TAPPING)
C107	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
C109	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
C116	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP
C117	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP
C119	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
C120	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
C603	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
C613	CEXF1H339V	C ELECTRO	50V RSS 3.3MF (5X11) TP
C616	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
C617	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP

LOC	PART-CODE	PART-NAME	PART-DESC
C619	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
C630	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
C634	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
C635	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
C637	CEXF1H339V	C ELECTRO	50V RSS 3.3MF (5X11) TP
C638	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
C640	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
C641	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
C643	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP
C645	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP
C648	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
C649	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
C650	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP
C651	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP
C652	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP
C653	CMXB1H104J	C MYLAR	50V EU 0.1MF J (TP)
C654	CMXB1H104J	C MYLAR	50V EU 0.1MF J (TP)
C655	CMXB1H104J	C MYLAR	50V EU 0.1MF J (TP)
C661	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP
C662	CEXF1V101V	C ELECTRO	35V RSS 100MF (8X11.5) TP
C665	CMXB1H104J	C MYLAR	50V EU 0.1MF J (TP)
C666	CMXB1H104J	C MYLAR	50V EU 0.1MF J (TP)
C667	CEXF1V101V	C ELECTRO	35V RSS 100MF (8X11.5) TP
C668	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP
C669	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP
C670	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP
C675	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP
C676	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP
C677	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP
C678	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
C701	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP
C702	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
C850	CCXB3A471K	C CERA	1KV B 470PF K (T)
C851	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP
C853	CMXL2E104K	C MYLAR	250V MEU 0.1MF K
C854	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP
C855	CCXB3A471K	C CERA	1KV B 470PF K (T)
C861	CMXL2E104K	C MYLAR	250V MEU 0.1MF K
I607	1K1A7042AP	IC REGULATOR	KIA7042AP
I704	1K1A7042AP	IC REGULATOR	KIA7042AP
I812	1KA431AZ—	IC REGULATOR	KA431AZ
L101	5CPX120J—	COIL PEAKING	12UH J (RADIAL)
Q101	TKTC3197—	TR	KTC3197 (TP)
Q102	TKTC3197—	TR	KTC3197 (TP)
Q103	TKTC3198Y-	TR	KTC3198Y
Q104	TKTC3198Y-	TR	KTC3198Y
Q105	TKTC3198Y-	TR	KTC3198Y
Q601	TKTC3198Y-	TR	KTC3198Y
Q602	TKTC3198Y-	TR	KTC3198Y
Q701	TKTC3198Y-	TR	KTC3198Y
RB2	RV5426103P	R SEMI FIXED	ENV-DJAA03B14 10K OHM B
X701	5XEX4R000C	CRYSTAL QUARTZ	HC-49/U 4.000MHZ 20PPM TP

LOC	PART-CODE	PART-NAME	PART-DESC
ZZ200	PEMPJAD018	PCB MAIN AXIAL AS	DSC-3270E
A001 ⚠	4959805724	PCB MAIN	330 X 246
C115	CCZB1H102K	C CERA	50V B 1000PF K AXIAL
C706	CCZB1H222K	C CERA	50V HIKB 2200PF K AXL 52M
D101	D1N4148—	DIODE	1N4148 (TAPPING)
D102	DSHS21——	DIODE	SHS21
D602	D1N4148—	DIODE	1N4148 (TAPPING)
D603	D1N4148—	DIODE	1N4148 (TAPPING)
D610	DUZ8R2BM—	DIODE ZENER	UZ-8.2B (8.2V)
D701	D1N4148—	DIODE	1N4148 (TAPPING)
D702	D1N4148—	DIODE	1N4148 (TAPPING)
D703	DUZ5R1BM—	DIODE ZENER	UZ-5.1BM
D851	DZEG01C—	DIODE	EG01C
D852	D1N4148—	DIODE	1N4148 (TAPPING)
J001	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J002	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J003	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J004	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J005	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J006	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J007	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J008	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J009	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J010	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J011	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J012	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J013	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J014	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J015	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J016	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J017	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J018	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J019	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J020	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J021	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J022	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J023	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J024	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J025	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J026	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J027	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J028	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J029	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J030	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J031	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J032	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J033	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J034	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J035	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J036	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J037	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J038	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING

LOC	PART-CODE	PART-NAME	PART-DESC
J039	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J040	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J041	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J042	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J043	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J044	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J045	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J046	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J047	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J048	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J049	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J050	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J051	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J052	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J053	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J054	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J055	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J056	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J057	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J058	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J059	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J060	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J061	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J062	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J063	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J064	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J065	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J066	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J067	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
J068	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J069	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J070	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J071	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J072	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J073	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J074	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J075	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J076	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J077	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J078	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J079	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J080	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J081	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J082	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J083	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J084	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J085	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J086	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J087	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J088	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J089	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J090	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING

LOC	PART-CODE	PART-NAME	PART-DESC
J091	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J092	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J093	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J094	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J095	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J096	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J097	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J098	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J099	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J100	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J101	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J102	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J103	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J104	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J105	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J106	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J107	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J108	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J109	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J110	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J111	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J112	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J113	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J114	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J115	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J116	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J117	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J118	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J119	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J120	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J121	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J122	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J123	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J124	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J125	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J126	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J127	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J128	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J129	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J130	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J131	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J132	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J133	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J134	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J135	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J136	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J137	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J138	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J139	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J140	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J141	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J142	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING

LOC	PART-CODE	PART-NAME	PART-DESC
J143	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J144	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J145	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J146	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J147	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J148	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J149	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J150	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J151	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J152	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J153	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J154	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J155	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J156	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J157	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J158	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J159	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J160	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J161	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J162	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J163	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J164	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J165	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J166	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J167	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J168	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J169	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J170	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J171	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J172	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J173	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J174	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J175	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J176	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J177	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
L701	5MC0000100	COIL BEAD	HC-3550
L702	5MC0000100	COIL BEAD	HC-3550
R104	RN-AZ1502F	R METAL FILM	1/6 15K OHM F
R105	RN-AZ3600F	R METAL FILM	1/6 360.0 OHM F
R106	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R108	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R109	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R111	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J
R112	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R113	RD-AZ271J-	R CARBON FILM	1/6 270 OHM J
R116	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R117	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R119	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J
R601	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R602	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R604	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R605	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R606	RD-2Z470J-	R CARBON FILM	1/2 47 OHM J
R608	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J
R609	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J
R610	RD-AZ113J-	R CARBON FILM	1/6 11K OHM J
R617	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J
R618	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J
R619	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J
R620	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J
R623	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J
R624	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J
R627	RD-2Z104J-	R CARBON FILM	1/2 100K OHM J
R628	RD-2Z104J-	R CARBON FILM	1/2 100K OHM J
R629	RD-2Z104J-	R CARBON FILM	1/2 100K OHM J
R630	RD-4Z229J-	R CARBON FILM	1/4 2.2 OHM J
R631	RD-4Z229J-	R CARBON FILM	1/4 2.2 OHM J
R632	RD-4Z229J-	R CARBON FILM	1/4 2.2 OHM J
R633	RD-4Z229J-	R CARBON FILM	1/4 2.2 OHM J
R635	RD-2Z104J-	R CARBON FILM	1/2 100K OHM J
R636	RD-2Z104J-	R CARBON FILM	1/2 100K OHM J
R637	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J
R638	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R654	RD-4Z229J-	R CARBON FILM	1/4 2.2 OHM J
R673	RD-4Z301J-	R CARBON FILM	1/4 300 OHM J
R674	RD-4Z301J-	R CARBON FILM	1/4 300 OHM J
R701	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
R702	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R703	RD-AZ334J-	R CARBON FILM	1/6 330K OHM J
R704	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R705	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J
R706	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J
R707	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R708	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R709	RD-AZ362J-	R CARBON FILM	1/6 3.6K OHM J
R713	RD-AZ622J-	R CARBON FILM	1/6 6.2K OHM J
R714	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R715	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R716	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R717	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J
R718	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R719	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R720	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R721	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R722	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R723	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R842	RD-AZ132J-	R CARBON FILM	1/6 1.3K OHM J
R851	RD-4Z689J-	R CARBON FILM	1/4 6.8 OHM J
R853	RD-4Z471J-	R CARBON FILM	1/4 470 OHM J
R854	RD-4Z133J-	R CARBON FILM	1/4 13K OHM J
R855	RD-4Z202J-	R CARBON FILM	1/4 2K OHM J
R856	RC-2Z565KP	R CARBON COMP	1/2 5.6M OHM K
Z101	5PMKT40MA-	FILTER CERA	MKT40MA100P
Z102	5PYXT5R5MB	FILTER CERA	XT 5.5MB

LOC	PART-CODE	PART-NAME	PART-DESC
ZZ300	PEPWMSD018	PCB POWER MANUAL AS	DSC-3270E
CF410	CMYH3D752J	C MYLAR	2KV BUP 7500PF J
C402	CCXB3D151K	C CERA	2KV B 150PF K (TAPPING)
C404	CMYH3D472J	C MYLAR	2KV BUP 4700PF J
C405	CMYE2J153J	C MYLAR	630V PU 0.015MF J
C406	CMYH3D522J	C MYLAR	2KV BUP 5200PF J
C409	CEYD1H689V	C ELECTRO	50V RUB 6.8MF (16*35.5)
C410	CMYE2G274J	C MYLAR	400V PU 0.27MF J
C415	CEXF2E101V	C ELECTRO	250V RSS 100MF 16X31.5
C801 ⚠	CL1UC3474M	C LINE ACROSS	0.47MF 1J(UCVSNDF/SV)+Q/O
C802 ⚠	CL1UC3474M	C LINE ACROSS	0.47MF 1J(UCVSNDF/SV)+Q/O
C803 ⚠	CL1UC3474M	C LINE ACROSS	0.47MF 1J(UCVSNDF/SV)+Q/O
C813	CEXF2G220C	C ELECTRO	400V RUS 22MF (16X25) TP
C814	CEXN2W471P	C ELECTRO	450V LHS 470MF (35X50)
C815	CMXH3C152J	C MYLAR	1.6KV BUP 1500PF J (TP)
C831	CEYF2D221V	C ELECTRO	200V RSS 220MF (18X40)
C835	CMXE2J154J	C MYLAR	630V PFU 0.15MF J
C843 ⚠	CH1FFF472M	C CERA AC	AC400V 4700PF F DE7150F
C870	CMXE2J472J	C MYLAR	PL 630V 4700PF J
D401	DFMLG12S—	DIODE	FML-G12S
D402	DFMRG5H—	DIODE DAMPER	FMRG5HS LF710
D402A	4857027607	HEAT SINK	AL EX
D402B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN
D403	DRU4AM——	DIODE	RU 4-AM (TAPPING)
D801	DPBS208GU-	DIODE BRIDGE	PBS208GU-CA
D802	DPBS606GU-	DIODE BRIDGE	PBS606G
D802A	4857027702	HEAT SINK	AL EX BK
D802B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN
D815	DRGP30J—	DIODE	RGP30J
D816	DRGP30J—	DIODE	RGP30J
D817	DRGP30J—	DIODE	RGP30J
D818	DRU3YX——	DIODE	RU3YX
D819	DRU3YX——	DIODE	RU3YX
D820	DRGP30J—	DIODE	RGP30J
D821	DRGP30J—	DIODE	RGP30J
D823	DRGP30J—	DIODE	RGP30J
D825	DRL2AV1—	DIODE	RL2AV1
D831	DRL2AV1—	DIODE	RL2AV1
FBT1 ⚠	5DH0000023	FBT	FFA65039L
F801 ⚠	5F3GB6322L	FUSE GLASS TUBE	V/S TL 6.3A 250V MF51
IF401	1KA4558—	IC AMP	KA4558
I301	1TDA8172—	IC V-OUT	TDA8172
I301A	4857028207	HEAT SINK	AL EX BK
I301B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN
I801	1TNY253—	IC POWER SW	TNY253P
I802 ⚠	1LTV817C—	IC PHOTO COUPLER	LTV-817C
I803	1STRS6709-	IC POWER	STR-S6709
I803A	4857027904	HEAT SINK	AL EX (AN0DIZE)
I803B	7174301211	SCREW TAPPTITE	TT2 RND 3X12 MFZN
I804 ⚠	1LTV817C—	IC PHOTO COUPLER	LTV-817C
I808	1KA7805—	IC REGULATOR	KA7805
I808A	4857026902	HEAT SINK	AL EX BK

LOC	PART-CODE	PART-NAME	PART-DESC
I808B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN
I809	1SE140N—	IC AMP	SE140N
LF401	58CD000009	COIL CHOKE	920UH
LF801 ⚠	5PLF3525A-	LINE FILTER	LF-3525A
LF802 ⚠	5PLF3520A-	LINE FILTER	LF-3520A
L403	58C0000118	COIL CHOKE	CH-191A
L404	58DH000003	COIL LINEARITY	TRL-12D
L806	58C4500079	COIL CHOKE	L-45
L807	58C4500079	COIL CHOKE	L-45
L808	58C4500079	COIL CHOKE	L-45
L809	58C4500079	COIL CHOKE	L-45
L812	58CD000010	COIL CHOKE	100UH
M351	4953500100	HOLDER CORD	FR HIPS BK
M351A	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK
M352	97P2316600	HOLDER AC CORD	NYLON66 UL/CSA
M361	4950800200	TERMINAL ANT AS	3600511+5900700+5900800
M361A	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK
M361B	7171301212	SCREW TAPTITE	TT2 PAN 3X12 MFZN BK
M721	4957203500	SHIELD PLATE	SPTH T0.4
PA804	4859907410	CORD POWER AS	M5206+TER=2250
PA805	4950704014	CONNECTOR	EFR-04+SHE001T-P0.6+W=600
PA806	4950703013	CONNECTOR	EFR-03+SHE001T-P0.6+W=600
PC804	4859238620	CONN WAFER	YPW500-02
PC84A	4950702005	CONNECTOR	YFH800-02+YDT236+ULW=700
PW803	4859235320	CONN WAFER	YW025-10
PW805	4859235320	CONN WAFER	YW025-10
PW808	4859238620	CONN WAFER	YPW500-02
PW88A	4950704015	CONNECTOR	YH396-04V+YT396+ULW=600
QF403	T4636LSRB-	TR	2SC4636LS-RB
Q403	T1RFS830—	FET	IRFS830
Q404	T2SC5422—	TR	2SC5422
Q404A	4857027534	HEAT SINK	AL EXBK
Q404B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN
Q404C	4857619500	INSU PLATE	SILICON RUBBER T0.3
Q408	TKTD2058Y-	TR	KTD 2058-Y
Q408A	4857027607	HEAT SINK	AL EX
Q408B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN
Q431	T1RFS830—	FET	IRFS830
Q431A	4857024903	HEAT SINK	AL EX
Q431B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN
Q801	TKTD1414—	TR	KTD1414
RY801 ⚠	DEC140M290	POSISTOR	ECPCC140M290
R801	RX05V229J-	R CEMENT	5W 2.2 OHM J VERTICAL
R803	RX15B229JN	R CEMENT	15W 2.2 OHM J BENCH 4P
R838	RW02Z758J-	R WIRE WOUND	2W 0.75 OHM J
TF401	5DP28A2—	TRANS FORMER	TD-28A2
T401	5DD0000021	TRANS DRIVE	DTD-01A
T801 ⚠	5DM16B1—	TRANS STAND-BY	DTS-16B1
T802 ⚠	5DM5345B2-	TRANS SMPS	DTS-5345B2
Y801 ⚠	5SC0000001	SW RELAY	DG5D1-0(M)0.25W
Y802 ⚠	5SC0202334	SW RELAY	DJ5D2-0(M)-0.25W
ZZ200	PEPWJ0D018	PCB POWER RHU AS	DSC-3270E

LOC	PART-CODE	PART-NAME	PART-DESC
CF405	CMXE2J333J	C MYLAR	630V PU 0.033MF J (TP)
CF406	CMXE2J333J	C MYLAR	630V PU 0.033MF J (TP)
CF407	CMXE2J333J	C MYLAR	630V PU 0.033MF J (TP)
CF408	CMXE2J333J	C MYLAR	630V PU 0.033MF J (TP)
C301	CMXB2A223J	C MYLAR	100V EU 0.022MF J (TP)
C302	CMXM2A333J	C MYLAR	100V 0.033MF J (TP)
C303	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C306	CMXB2A223J	C MYLAR	100V EU 0.022MF J (TP)
C403	CCXB3D272K	C CERA	2KV B 2700PF K
C407	CMXB2A223J	C MYLAR	100V EU 0.022MF J (TP)
C411	CCXB3D102K	C CERA	2KV B 1000PF K (TAPPING)
C414	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP
C421	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP
C452	CMXL2E104K	C MYLAR	250V MEU 0.1MF K
C806	CEXF2W100V	C ELECTRO	450V RSS 10MF (13X20) TP
C809	CH1BEE472M	C CERA AC	2.5KV 4700PF M SC AC250V
C810	CH1BEE472M	C CERA AC	2.5KV 4700PF M SC AC250V
C811	CH1BEE472M	C CERA AC	2.5KV 4700PF M SC AC250V
C812	CH1BEE472M	C CERA AC	2.5KV 4700PF M SC AC250V
C818	CEXF1E331V	C ELECTRO	25V RSS 330MF (10X12.5)TP
C826	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK
C828	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK
C829	CCXB3D221K	C CERA	2KV B 220PF K (TAPPING)
C830	CEXF2C330V	C ELECTRO	160V RSS 33MF (13X20) TP
C832	CEXF2C220V	C ELECTRO	160V RSS 22MF (10X20) TP
C834	CEXF1H102V	C ELECTRO	50V RSS 1000MF (16X25) TP
C836	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) BK
C837	CEXF1E471V	C ELECTRO	25V RSS 470MF (10X16) TP
C838	CEXF1C222V	C ELECTRO	16V RSS 2200MF (13X25) TP
C839	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP
C840	CEXF1C222V	C ELECTRO	16V RSS 2200MF (13X25) TP
C841	CEXF1C222V	C ELECTRO	16V RSS 2200MF (13X25) TP
C896	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK
ZZ200	PEPWJBD018	PCB POWER M-10 AS	DSC-3270E
E101	4856310300	EYE LET	BSR T0.2 (R1.6)
E102	4856310300	EYE LET	BSR T0.2 (R1.6)
E107	4856310300	EYE LET	BSR T0.2 (R1.6)
E108	4856310300	EYE LET	BSR T0.2 (R1.6)
E109	4856310300	EYE LET	BSR T0.2 (R1.6)
E110	4856310300	EYE LET	BSR T0.2 (R1.6)
E111	4856310300	EYE LET	BSR T0.2 (R1.6)
E112	4856310300	EYE LET	BSR T0.2 (R1.6)
E113	4856310600	EYE LET	BSR T0.2 (R2.3)
E114	4856310600	EYE LET	BSR T0.2 (R2.3)
E115	4856310600	EYE LET	BSR T0.2 (R2.3)
E116	4856310600	EYE LET	BSR T0.2 (R2.3)
E117	4856310600	EYE LET	BSR T0.2 (R2.3)
E118	4856310600	EYE LET	BSR T0.2 (R2.3)
E119	4856310600	EYE LET	BSR T0.2 (R2.3)
E120	4856310600	EYE LET	BSR T0.2 (R2.3)
E121	4856310600	EYE LET	BSR T0.2 (R2.3)
E122	4856310600	EYE LET	BSR T0.2 (R2.3)

LOC	PART-CODE	PART-NAME	PART-DESC
E123	4856310600	EYE LET	BSR T0.2 (R2.3)
E124	4856310600	EYE LET	BSR T0.2 (R2.3)
E125	4856310600	EYE LET	BSR T0.2 (R2.3)
E126	4856310600	EYE LET	BSR T0.2 (R2.3)
E127	4856310600	EYE LET	BSR T0.2 (R2.3)
E128	4856310600	EYE LET	BSR T0.2 (R2.3)
E129	4856310600	EYE LET	BSR T0.2 (R2.3)
E130	4856310300	EYE LET	BSR T0.2 (R1.6)
E131	4856310300	EYE LET	BSR T0.2 (R1.6)
E132	4856310300	EYE LET	BSR T0.2 (R1.6)
E133	4856310300	EYE LET	BSR T0.2 (R1.6)
E135	4856310300	EYE LET	BSR T0.2 (R1.6)
E141	4856310600	EYE LET	BSR T0.2 (R2.3)
E146	4856310600	EYE LET	BSR T0.2 (R2.3)
E147	4856310600	EYE LET	BSR T0.2 (R2.3)
E148	4856310600	EYE LET	BSR T0.2 (R2.3)
E149	4856310600	EYE LET	BSR T0.2 (R2.3)
E150	4856310300	EYE LET	BSR T0.2 (R1.6)
E151	4856310300	EYE LET	BSR T0.2 (R1.6)
E152	4856310300	EYE LET	BSR T0.2 (R1.6)
E153	4856310300	EYE LET	BSR T0.2 (R1.6)
E154	4856310300	EYE LET	BSR T0.2 (R1.6)
E155	4856310300	EYE LET	BSR T0.2 (R1.6)
E156	4856310300	EYE LET	BSR T0.2 (R1.6)
E157	4856310300	EYE LET	BSR T0.2 (R1.6)
E158	4856310300	EYE LET	BSR T0.2 (R1.6)
E26	4856310600	EYE LET	BSR T0.2 (R2.3)
E27	4856310600	EYE LET	BSR T0.2 (R2.3)
E28	4856310600	EYE LET	BSR T0.2 (R2.3)
E29	4856310600	EYE LET	BSR T0.2 (R2.3)
E32	4856310300	EYE LET	BSR T0.2 (R1.6)
E35	4856310300	EYE LET	BSR T0.2 (R1.6)
E36	4856310300	EYE LET	BSR T0.2 (R1.6)
E39	4856310300	EYE LET	BSR T0.2 (R1.6)
E41	4856310300	EYE LET	BSR T0.2 (R1.6)
E42	4856310300	EYE LET	BSR T0.2 (R1.6)
E44	4856310600	EYE LET	BSR T0.2 (R2.3)
E51	4856310600	EYE LET	BSR T0.2 (R2.3)
E59	4856310600	EYE LET	BSR T0.2 (R2.3)
E62	4856310600	EYE LET	BSR T0.2 (R2.3)
E63	4856310600	EYE LET	BSR T0.2 (R2.3)
E64	4856310600	EYE LET	BSR T0.2 (R2.3)
E65	4856310600	EYE LET	BSR T0.2 (R2.3)
E66	4856310600	EYE LET	BSR T0.2 (R2.3)
E67	4856310600	EYE LET	BSR T0.2 (R2.3)
E84	4856310300	EYE LET	BSR T0.2 (R1.6)
E85	4856310300	EYE LET	BSR T0.2 (R1.6)
E86	4856310300	EYE LET	BSR T0.2 (R1.6)
E87	4856310300	EYE LET	BSR T0.2 (R1.6)
E88	4856310300	EYE LET	BSR T0.2 (R1.6)
E89	4856310300	EYE LET	BSR T0.2 (R1.6)
E90	4856310300	EYE LET	BSR T0.2 (R1.6)

LOC	PART-CODE	PART-NAME	PART-DESC
E91	4856310300	EYE LET	BSR T0.2 (R1.6)
E92	4856310300	EYE LET	BSR T0.2 (R1.6)
E95	4856310300	EYE LET	BSR T0.2 (R1.6)
E96	4856310300	EYE LET	BSR T0.2 (R1.6)
N10	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
N2	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
N3	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
N4	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
N5	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
N8	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
N9	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
PW801	485923182S	CONN WAFER	YW025-05 (STICK)
PW802	485923172S	CONN WAFER	YW025-04 (STICK)
PW804	485923192S	CONN WAFER	YW025-06 (STICK)
RF415	RS02Z333J-	R M-OXIDE FILM	2W 33K OHM J
RF416	RS02Z333J-	R M-OXIDE FILM	2W 33K OHM J
RF417	RS02Z333J-	R M-OXIDE FILM	2W 33K OHM J
RF423	RS01Z472J-	R M-OXIDE FILM	1W 4.7K OHM J (TAPPING)
R307	RF02Z208K-	R FUSIBLE	2W 0.2 OHM K (TAPPING)
R308	RS01Z151J-	R M-OXIDE FILM	1W 150 OHM J (TAPPING)
R314	RF01Z518K-	R FUSIBLE	1W 0.51 OHM K (TAPPING)
R401	RS02Z271J-	R M-OXIDE FILM	2W 270 OHM J (TAPPING)
R402	RS02Z271J-	R M-OXIDE FILM	2W 270 OHM J (TAPPING)
R403	RS02Z271J-	R M-OXIDE FILM	2W 270 OHM J (TAPPING)
R407	RS01Z221J-	R M-OXIDE FILM	1W 220 OHM J (TAPPING)
R408	RS02Z478J-	R M-OXIDE FILM	2W 0.47 OHM J(TAPPING)
R420	RF01Z228K-	R FUSIBLE	1W 0.22 OHM K (TAPPING)
R421	RS01Z271J-	R M-OXIDE FILM	1W 270 OHM J (TAPPING)
R423	RS02Z338J-	R M-OXIDE FILM	2W 0.33 OHM J
R424	RF01Z279J-	R FUSIBLE	1W 2.7 OHM J (TAPPING)
R425	RS01Z338J-	R M-OXIDE FILM	1W 0.33 OHM J (TAPPING)
R426	RF02Z309J-	R FUSIBLE	2W 3 OHM J (TAPPING)
R430	RS01Z518J-	R M-OXIDE FILM	1W 0.51 OHM J
R433	RF01Z188K-	R FUSIBLE	1W 0.18 OHM K (TAPPING)
R807	RS02Z273J-	R M-OXIDE FILM	2W 27K OHM J (TAPPING)
R808	RS02Z158J-	R M-OXIDE FILM	2W 0.15 OHM J
R809	RS01Z120J-	R M-OXIDE FILM	1W 12 OHM J (TAPPING)
R827	RS02Z153J-	R M-OXIDE FILM	2W 15K OHM J (TAPPING)
R828	RS02Z470J-	R M-OXIDE FILM	2W 47 OHM J (TAPPING)
R830	RS01Z518J-	R M-OXIDE FILM	1W 0.51 OHM J
R832	RS01Z518J-	R M-OXIDE FILM	1W 0.51 OHM J
R834	RF01Z128J-	R FUSIBLE	1W 0.12 OHM J (TAPPING)
ZZ200	PEPWJRD018	PCB POWER RADIAL AS	DSC-3270E
CF401	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP
CF402	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP
CF403	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP
CF404	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP
CF409	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP
C304	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C305	CEXF1V101V	C ELECTRO	35V RSS 100MF (8X11.5) TP
C307	CMXM2A683J	C MYLAR	100V 0.068MF J (TP)

LOC	PART-CODE	PART-NAME	PART-DESC
C401	CCXB3A471K	C CERA	1KV B 470PF K (T)
C408	CEXF1E101V	C ELECTRO	25V RSS 100MF (6.3X11) TP
C413	CEXF1H101V	C ELECTRO	50V RSS 100MF (8X11.5) TP
C419	CCXB2H101K	C CERA	500V B 100PF K (TAPPING)
C420	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP
C450	CCXB1H102K	C CERA	50V B 1000PF K (TAPPING)
C451	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
C804	CCXF3A472Z	C CERA	1KV F 4700PF Z (T)
C805	CCXF3A472Z	C CERA	1KV F 4700PF Z (T)
C807	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C808	CXCH2H470J	C CERA	500V CH 47PF J (TAPPING)
C816	CEXF2A100V	C ELECTRO	100V RSS 10MF (6.3X11) TP
C817	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP
C819	CMXB2A102J	C MYLAR	100V EU 1000PF J (TP)
C820	CCXF1H104Z	C CERA	50V F 0.1MF Z
C821	CCXF1H104Z	C CERA	50V F 0.1MF Z
C822	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP
C823	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP
C827	CBXF1H104Z	C CERA SEMI	50V F 0.1MF Z (TAPPING)
C842	CBXF1H104Z	C CERA SEMI	50V F 0.1MF Z (TAPPING)
C845	CMXE2A103J	C MYLAR	100V PU 0.01MF J
C846	CEXF2A100V	C ELECTRO	100V RSS 10MF (6.3X11) TP
C847	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP
C849	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
C890	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
C891	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
C892	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
C899	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
F801A	4857415001	CLIP FUSE	PFC5000-0702
F801B	4857415001	CLIP FUSE	PFC5000-0702
L402	58C0000096	COIL CHOKE	610G0233(470K)
L805	58C0000096	COIL CHOKE	610G0233(470K)
QF401	TKTA1266Y-	TR	KTA1266Y (TP)
QF402	TKTC3198Y-	TR	KTC3198Y
QF404	TKTA1266Y-	TR	KTA1266Y (TP)
Q401	TKTC3198Y-	TR	KTC3198Y
Q405	TKTC3198Y-	TR	KTC3198Y
Q406	TKTC3198Y-	TR	KTC3198Y
Q407	TKSA1013Y-	TR	KSA1013Y (TP)
Q430	TKSC2383Y-	TR	KSC2383-Y
Q802	TKSC2383Y-	TR	KSC2383-Y
Q803	TKSC2383Y-	TR	KSC2383-Y
Q804	T2SA1544—	TR	2SA1544
R451	RV5426103P	R SEMI FIXED	ENV-DJAA03B14 10K OHM B
ZZ200	PEPWJAD018	PCB POWER AXIAL AS	DSC-3270E
A001 ⚠	4959805624	PCB POWER	330 X 246
DF401	D1N4937G—	DIODE	1N4937G (TAPPING)
DF402	D1N4937G—	DIODE	1N4937G (TAPPING)
DF403	D1N4937G—	DIODE	1N4937G (TAPPING)
DF404	D1N4937G—	DIODE	1N4937G (TAPPING)
D301	D1N4937G—	DIODE	1N4937G (TAPPING)
D302	DUZ5R1BM—	DIODE ZENER	UZ-5.1BM

LOC	PART-CODE	PART-NAME	PART-DESC
D404	DUZ5R6BM—	DIODE ZENER	UZ-5.6BM(TAPPING)
D406	DRF1———	DIODE	RF1
D407	DRF1———	DIODE	RF1
D409	D1N4937G—	DIODE	1N4937G (TAPPING)
D410	DUZ12BM—	DIODE ZENER	UZ-12BM (UNIZON)
D411	DRF1———	DIODE	RF1
D430	DUZ4R3B—	DIODE ZENER	UZ-4R3B
D431	DUZ12BM—	DIODE ZENER	UZ-12BM (UNIZON)
D803	DRL2AV1—	DIODE	RL2AV1
D804	D1N4937G—	DIODE	1N4937G (TAPPING)
D805	DUZ7R5BM—	DIODE ZENER	UZ-7.5BM 7.5V
D806	D1N4937G—	DIODE	1N4937G (TAPPING)
D807	D1N4937G—	DIODE	1N4937G (TAPPING)
D808	DRF1———	DIODE	RF1
D809	DUZ16BL—	DIODE ZENER	UZ16BL
D810	D1N4148—	DIODE	1N4148 (TAPPING)
D811	D1N4148—	DIODE	1N4148 (TAPPING)
D812	D1N4937G—	DIODE	1N4937G (TAPPING)
D813	DUZ5R1BM—	DIODE ZENER	UZ-5.1BM
D814	DUZ33B——	DIODE ZENER	UZ-33B
D822	D1N4148—	DIODE	1N4148 (TAPPING)
D826	D1N4004S—	DIODE	1N4004S
D827	D1N4937G—	DIODE	1N4937G (TAPPING)
D828	D1N4937G—	DIODE	1N4937G (TAPPING)
D857	D1N4148—	DIODE	1N4148 (TAPPING)
J001	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J002	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J003	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J004	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J005	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J006	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J007	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J008	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J009	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J010	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J011	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J012	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J014	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J015	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J016	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J017	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J018	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J019	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J020	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J021	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J022	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J023	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J024	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J025	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J026	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J027	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J028	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING

LOC	PART-CODE	PART-NAME	PART-DESC
J029	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J030	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J031	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J032	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J033	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J034	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J035	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J036	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J037	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J038	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J039	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J040	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J041	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J042	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J044	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J045	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J046	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J047	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J048	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J049	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J050	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J051	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J052	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J053	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J054	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J055	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J056	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J058	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J059	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J060	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J170	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J171	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J172	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
L301	5MC0000100	COIL BEAD	HC-3550
L302	5MC0000100	COIL BEAD	HC-3550
L401	5MC0000100	COIL BEAD	HC-3550
L801	5MC0000100	COIL BEAD	HC-3550
L802	5MC0000100	COIL BEAD	HC-3550
L803	5MC0000100	COIL BEAD	HC-3550
L804	5MC0000100	COIL BEAD	HC-3550
RF401	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
RF402	RD-4Z562J-	R CARBON FILM	1/4 5.6K OHM J
RF403	RD-AZ911J-	R CARBON FILM	1/6 910 OHM J
RF404	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
RF405	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J
RF406	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
RF407	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
RF408	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
RF409	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J
RF410	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J
RF411	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J
RF412	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
RF413	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
RF414	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
RF418	RD-4Z182J-	R CARBON FILM	1/4 1.8K OHM J
RF419	RD-AZ242J-	R CARBON FILM	1/6 2.4K OHM J
RF420	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
RF421	RD-AZ431J-	R CARBON FILM	1/6 430 OHM J
RF422	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J
R301	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R302	RD-AZ752J-	R CARBON FILM	1/6 7.5K OHM J
R303	RD-AZ132J-	R CARBON FILM	1/6 1.3K OHM J
R304	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J
R305	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R306	RD-AZ912J-	R CARBON FILM	1/6 9.1K OHM J
R309	RD-2Z229J-	R CARBON FILM	1/2 2.2 OHM J
R310	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R311	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R312	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R313	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R404	RD-2Z100J-	R CARBON FILM	1/2 10 OHM J
R405	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J
R406	RD-4Z681J-	R CARBON FILM	1/4 680 OHM J
R409	RD-2Z470J-	R CARBON FILM	1/2 47 OHM J
R410	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R411	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R412	RD-AZ433J-	R CARBON FILM	1/6 43K OHM J
R413	RD-AZ751J-	R CARBON FILM	1/6 750 OHM J
R414	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J
R415	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J
R416	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J
R417	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J
R418	RD-4Z479J-	R CARBON FILM	1/4 4.7 OHM J
R419	RD-4Z204J-	R CARBON FILM	1/4 200K OHM J
R427	RD-4Z562J-	R CARBON FILM	1/4 5.6K OHM J
R428	RD-4Z562J-	R CARBON FILM	1/4 5.6K OHM J
R429	RD-4Z562J-	R CARBON FILM	1/4 5.6K OHM J
R440	RD-AZ201J-	R CARBON FILM	1/6 200 OHM J
R441	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J
R450	RD-4Z104J-	R CARBON FILM	1/4 100K OHM J
R452	RD-4Z222J-	R CARBON FILM	1/4 2.2K OHM J
R453	RD-4Z474J-	R CARBON FILM	1/4 470K OHM J
R454	RD-2Z562J-	R CARBON FILM	1/2 5.6K OHM J
R455	RD-4Z473J-	R CARBON FILM	1/4 47K OHM J
R456	RD-4Z272J-	R CARBON FILM	1/4 2.7K OHM J
R457	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J
R458	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R802	RD-2Z101J-	R CARBON FILM	1/2 100 OHM J
R810	RD-4Z104J-	R CARBON FILM	1/4 100K OHM J
R811	RD-2Z563J-	R CARBON FILM	1/2 56K OHM J
R812	RD-4Z182J-	R CARBON FILM	1/4 1.8K OHM J
R814	RD-4Z430J-	R CARBON FILM	1/4 43 OHM J
R815	RD-4Z472J-	R CARBON FILM	1/4 4.7K OHM J
R816	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R820	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J
R822	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J
R824 ⚠	RC-2Z565KP	R CARBON COMP	1/2 5.6M OHM K
R825	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J
R826	RD-4Z271J-	R CARBON FILM	1/4 270 OHM J
R833	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J
R839	RD-4Z333J-	R CARBON FILM	1/4 33K OHM J
R840	RN-4Z6202F	R METAL FILM	1/4 62.0K OHM F
R841	RN-4Z3901F	R METAL FILM	1/4 3.90K OHM F
R855	RD-4Z103J-	R CARBON FILM	1/4 10K OHM J
R856	RD-4Z103J-	R CARBON FILM	1/4 10K OHM J
R857	RD-4Z103J-	R CARBON FILM	1/4 10K OHM J
R858	RD-4Z103J-	R CARBON FILM	1/4 10K OHM J
R859	RD-4Z224J-	R CARBON FILM	1/4 220K OHM J
R861	RD-4Z103J-	R CARBON FILM	1/4 10K OHM J
R864	RD-4Z474J-	R CARBON FILM	1/4 470K OHM J
R865	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J
R866	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J
ZZ400	PEVDMSD018	PCB VIDEO MANUAL AS	DSC-3270E
CD01	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
CD02	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP
CD03	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK
CD04	CEXF1H339V	C ELECTRO	50V RSS 3.3MF (5X11) TP
CD06	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)BK
LD01	5CPX100J—	COIL PEAKING	PL 10UH J (TAPPING)
PD01	4859279820	CONN WAFER	TAC-L18P-A3 (ANGLE)
PD02	4859279820	CONN WAFER	TAC-L18P-A3 (ANGLE)
SD01	4853946000	BRKT JUMPER A	SECC T1.0 (VCR-63DB)
XD01	5XE20R250E	CRYSTAL QUARTZ	HC-49/U 20.2500MHZ 30PPM
ZZ200	PEVDJ2D018	PCB VIDEO CHIP B AS	DSC-3270E
CCD01	HCFH105ZCA	C CHIP CERA	25V Y5V 1MF Z 2012
CCD02	HCFH105ZCA	C CHIP CERA	25V Y5V 1MF Z 2012
CCD07	HCQK820JCA	C CHIP CERA	50V CH 82PF J 2012
CCD08	HCFH105ZCA	C CHIP CERA	25V Y5V 1MF Z 2012
CCD09	HCQK309CCA	C CHIP CERA	50V CH 3PF C 2012
CCD10	HCQK309CCA	C CHIP CERA	50V CH 3PF C 2012
CCD12	HCBK473KCA	C CHIP CERA	50V X7R 0.047MF K 2012
CCD13	HCFK224ZCA	C CHIP CERA	50V Y5V 0.22MF Z 2012
CCD14	HCFK224ZCA	C CHIP CERA	50V Y5V 0.22MF Z 2012
CCD15	HCFK224ZCA	C CHIP CERA	50V Y5V 0.22MF Z 2012
CCD16	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CCD17	HCBK122KCA	C CHIP CERA	50V X7R 1200PF K 2012
CCD19	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CCD20	HCFH105ZCA	C CHIP CERA	25V Y5V 1MF Z 2012
CCD21	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CCD22	HCFH105ZCA	C CHIP CERA	25V Y5V 1MF Z 2012
CCD23	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CCD24	HCFH105ZCA	C CHIP CERA	25V Y5V 1MF Z 2012
CCD25	HCFH105ZCA	C CHIP CERA	25V Y5V 1MF Z 2012
CCD26	HCFH105ZCA	C CHIP CERA	25V Y5V 1MF Z 2012
CCD27	HCFH105ZCA	C CHIP CERA	25V Y5V 1MF Z 2012
CCD30	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012

LOC	PART-CODE	PART-NAME	PART-DESC
CCD31	HCQK101JCA	C CHIP CERA	50V CH 100PF J 2012
CCD32	HCQK101JCA	C CHIP CERA	50V CH 100PF J 2012
CCD33	HCBK153KCA	C CHIP CERA	50V X7R 0.015MF K 2012
CCD34	HCBK153KCA	C CHIP CERA	50V X7R 0.015MF K 2012
CCD35	HCBK153KCA	C CHIP CERA	50V X7R 0.015MF K 2012
CCD37	HCQK101JCA	C CHIP CERA	50V CH 100PF J 2012
CCD40	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CCD41	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CCD43	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CCD45	HCFH105ZCA	C CHIP CERA	25V Y5V 1MF Z 2012
CCD46	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CCD48	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CCD50	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CCD51	HCFH105ZCA	C CHIP CERA	25V Y5V 1MF Z 2012
CCD52	HCFH105ZCA	C CHIP CERA	25V Y5V 1MF Z 2012
CCD53	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CCD70	HCQK820JCA	C CHIP CERA	50V CH 82PF J 2012
CCD71	HCQK820JCA	C CHIP CERA	50V CH 82PF J 2012
JCD01	HRFT000-CA	R CHIP	1/10 0 OHM 2012
JCD02	HRFT000-CA	R CHIP	1/10 0 OHM 2012
JCD03	HRFT000-CA	R CHIP	1/10 0 OHM 2012
JCD04	HRFT000-CA	R CHIP	1/10 0 OHM 2012
JCD05	HRFT000-CA	R CHIP	1/10 0 OHM 2012
JCD06	HRFT000-CA	R CHIP	1/10 0 OHM 2012
JCD07	HRFT000-CA	R CHIP	1/10 0 OHM 2012
JCD08	HRFT000-CA	R CHIP	1/10 0 OHM 2012
JCD09	HRFT000-CA	R CHIP	1/10 0 OHM 2012
JCD10	HRFT000-CA	R CHIP	1/10 0 OHM 2012
JCD12	HRFT000-CA	R CHIP	1/10 0 OHM 2012
QCD01	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QCD50	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QCD51	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QCD52	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QCD53	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QCD57	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QCD58	T2SA812T2B	TR CHIP	2SA812-T2B
QCD59	T2SA812T2B	TR CHIP	2SA812-T2B
QCD60	T2SA812T2B	TR CHIP	2SA812-T2B
QCD61	T2SA812T2B	TR CHIP	2SA812-T2B
RCD01	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RCD02	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
RCD04	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RCD05	HRFT470JCA	R CHIP	1/10 47 OHM J 2012
RCD06	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
RCD07	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
RCD08	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
RCD09	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RCD10	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RCD14	HRFT000-CA	R CHIP	1/10 0 OHM 2012
RCD27	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RCD28	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RCD31	HRFT101JCA	R CHIP	1/10 100 OHM J 2012

LOC	PART-CODE	PART-NAME	PART-DESC
RCD32	HRFT161JCA	R CHIP	1/10 160 OHM J 2012
RCD33	HRFT161JCA	R CHIP	1/10 160 OHM J 2012
RCD50	HRFT431JCA	R CHIP	1/10 430 OHM J 2012
RCD51	HRFT431JCA	R CHIP	1/10 430 OHM J 2012
RCD52	HRFT431JCA	R CHIP	1/10 430 OHM J 2012
RCD53	HRFT431JCA	R CHIP	1/10 430 OHM J 2012
RCD54	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RCD55	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RCD56	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RCD57	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RCD61	HRFT152JCA	R CHIP	1/10 1.5K OHM J 2012
RCD62	HRFT151JCA	R CHIP	1/10 150 OHM J 2012
RCD63	HRFT151JCA	R CHIP	1/10 150 OHM J 2012
RCD64	HRFT151JCA	R CHIP	1/10 150 OHM J 2012
RCD65	HRFT151JCA	R CHIP	1/10 150 OHM J 2012
RCD70	HRFT431JCA	R CHIP	1/10 430 OHM J 2012
RCD71	HRFT431JCA	R CHIP	1/10 430 OHM J 2012
RCD72	HRFT431JCA	R CHIP	1/10 430 OHM J 2012
RCD73	HRFT681JCA	R CHIP	1/10 680 OHM J 2012
RCD90	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
ZZ200	PEVDJ1D018	PCB VIDEO CHIP A AS	DSC-3270E
A001	4959802924	PCB VIDEO AS	143 X 246
ID01	1VPC3215CT	IC CHIP VIDEO	VPC3215C
ID02	1C1P3250AT	IC CHIP VIDEO	CIP3250A
ID03	1MSM54122Q	IC MEMORY	MSM5412222
ID04	1DDP3310BT	IC CHIP	DDP3310B
ZZ500	PEUNSWD018	PCB UNION AS	DSC-3270E
C904	CEXF2C100V	C ELECTRO	160V RSS 10MF (10X16) TP
C906	CEXF2C470V	C ELECTRO	160V RSS 47MF (13X25) TP
C915	CEXF2C100V	C ELECTRO	160V RSS 10MF (10X16) TP
C923	CMYL2G104J	C MYLAR	400V MEU 0.1MF J
C924	CEXF2E100V	C ELECTRO	250V RSS 10MF (10X20) TP
C927	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP
C928	CEXF1H221V	C ELECTRO	50V RSS 220MF (10X16) TP
C932	CMYL2G104J	C MYLAR	400V MEU 0.1MF J
C942	CEXF2E479V	C ELECTRO	250V RSS 4.7MF (10X16)TP
C946	4SG0D00103	SPARK GAP	S-23 900V-1.5KV
C947	4SG0D00103	SPARK GAP	S-23 900V-1.5KV
C948	4SG0D00103	SPARK GAP	S-23 900V-1.5KV
C949	CH1HFE102M	C CERA AC	4.0KV 1000PF E DG
C951	CMYL2G104J	C MYLAR	400V MEU 0.1MF J
DY1	DH1L25RS—	LED (RED)	HI-L25RS
DY2	DH1L25RS—	LED (RED)	HI-L25RS
DY3	DH1L25RGD-	“LED (R,G-3 COLOR)”	HI-L25RGD
DY4	DH1L25RGD-	“LED (R,G-3 COLOR)”	HI-L25RGD
IY1	1SR9HP——	IC PREAMP	SR-9HP
I901	1TDA6111Q-	IC AMP VIDEO	TDA6111Q
I901A	4857018902	HEAT SINK	A1050P-H24
I901B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN
I902	1TDA6111Q-	IC AMP VIDEO	TDA6111Q
I902A	4857018902	HEAT SINK	A1050P-H24
I902B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN

LOC	PART-CODE	PART-NAME	PART-DESC
I903	1TDA6111Q-	IC AMP VIDEO	TDA6111Q
I903A	4857018902	HEAT SINK	A1050P-H24
I903B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN
JZ1	4859105240	JACK PHONO	LGT1516-0100
JZ2	4859105340	JACK S-VHS	YKF51-5359
JZ3	4859105450	JACK PIN BOARD	YSC03P-4120-9S
M321	4953200600	BRKT POWER	EGI T1.2
M321A	7063300612	SCREW MACHINE	M/C BIN 3X6 MFZN BK
M491	4954901100	BUTTIN CH	ABS PAINT
M551	4955500100	DECO SENSOR	PMMA MILKY
M552	4957900400	TUBE	GSHS-1625 T0.3
PA11V	4950706022	CONNECTOR	YH025-06+YST250+ULW=600
PA903	4950704016	CONNECTOR	YH025-04+YST250+ULW=450
PA905	4950703014	CONNECTOR	EFR-03+SHE001T-P0.6+W=200
PA910	4950705009	CONNECTOR	YH025-05+YST250+ULW=400
PA911	4950703015	CONNECTOR	YH025-03+YST250+ULW=600
PA912	4950705008	CONNECTOR	YH025-05+YST250+ULW=500
PS801	4950702004	CONNECTOR	YFH800-02+YDT236+ULW=1000
PWU1	4859236820	CONN WAFER	YAW025-11
PW998	4859235120	CONN WAFER	YW025-08
PW999	4859238620	CONN WAFER	YPW500-02
Q908	TKTA1659Y-	TR	KTA 1659-Y
Q908A	4857026901	HEAT SINK	AL EX BK
Q908B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN
Q909	TKTC4370Y-	TR	KTC 4370-Y
Q909A	4857026900	HEAT SINK	AL EX
Q909B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN
R923	RS02Y221J-	R M-OXIDE FILM	2W 220 OHM J
R939	RS02Y683JS	R M-OXIDE FILM	2W 68K OHM J SMALL
R940	RS02Y683JS	R M-OXIDE FILM	2W 68K OHM J SMALL
R941	RS02Y683JS	R M-OXIDE FILM	2W 68K OHM J SMALL
SCT1 ⚠	4859303730	SOCKET CRT	ISD-07S
SW801 ⚠	5S40000003	SW POWER PUSH	SS-160-7-G
ZZ200	PEUNJRD018	PCB UNION RADIAL AS	DSC-3270E
CY1	CEXF1H108V	C ELECTRO	50V RSS 0.1MF (5X11) TP
CY2	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
C901	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
C903	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
C905	CEXF1H101V	C ELECTRO	50V RSS 100MF (8X11.5) TP
C907	CMXM2A822J	C MYLAR	100V 8200PF J (TP)
C911	CCXB2H472K	C CERA	500V B 4700PF K (TAPPING)
C912	CCXB2H472K	C CERA	500V B 4700PF K (TAPPING)
C914	CXCH1H360J	C CERA	50V CH 36PF J (TAPPING)
C920	CEXF1H101V	C ELECTRO	50V RSS 100MF (8X11.5) TP
C922	CCXB2H561K	C CERA	500V B 560PF K (TAPPING)
C925	CEXF2E229V	C ELECTRO	250V RSS 2.2MF (8X11.5)TP
C929	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C930	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C935	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C936	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C937	CCXB2H561K	C CERA	500V B 560PF K (TAPPING)
C938	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)

LOC	PART-CODE	PART-NAME	PART-DESC
C939	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C941	CCXB2H561K	C CERA	500V B 560PF K (TAPPING)
QY1	TKTA1266Y-	TR	KTA1266Y (TP)
QY2	TKTA1266Y-	TR	KTA1266Y (TP)
QY3	TKTC3198Y-	TR	KTC3198Y
Q902	TKTC3198Y-	TR	KTC3198Y
Q904	TKTC3198Y-	TR	KTC3198Y
Q905	TKTC3198Y-	TR	KTC3198Y
Q906	TKTC3198Y-	TR	KTC3198Y
Q907	TKTA1266Y-	TR	KTA1266Y (TP)
Q910	TKTA1266Y-	TR	KTA1266Y (TP)
Q911	TKTA1266Y-	TR	KTA1266Y (TP)
Q912	TKTA1266Y-	TR	KTA1266Y (TP)
SW703	5S50101Z90	SW TACT	THVV502GDA
SW704	5S50101Z90	SW TACT	THVV502GDA
SW705	5S50101Z90	SW TACT	THVV502GDA
SW706	5S50101Z90	SW TACT	THVV502GDA
SW707	5S50101Z90	SW TACT	THVV502GDA
ZZ200	PEUNJAD018	PCB UNION AXIAL AS	DSC-3270E
A001 ⚠	4959805824	PCB UNION	203 X 246
C908	CCZB1H221K	C CERA	50V B 220PF K
C909	CCZF1H103Z	C CERA	50V F 0.01MF Z
C910	CCZF1H103Z	C CERA	50V F 0.01MF Z
C913	CCZF1H103Z	C CERA	50V F 0.01MF Z
C921	CCZF1H103Z	C CERA	50V F 0.01MF Z
D902	D1N4148—	DIODE	1N4148 (TAPPING)
D903	D1N4148—	DIODE	1N4148 (TAPPING)
D904	D1N4148—	DIODE	1N4148 (TAPPING)
D905	D1N4148—	DIODE	1N4148 (TAPPING)
D906	D1N4004S—	DIODE	1N4004S
D907	D1N4004S—	DIODE	1N4004S
D908	DUZ9R1BM—	DIODE ZENER	UZ-9.1BM 9.1V
D909	DRGP15J—	DIODE	RGP15J
D910	DRGP15J—	DIODE	RGP15J
D914	DRGP15J—	DIODE	RGP15J
D920	DRGP15J—	DIODE	RGP15J
D921	DRGP15J—	DIODE	RGP15J
D922	DRGP15J—	DIODE	RGP15J
D923	DRGP15J—	DIODE	RGP15J
D924	DRGP15J—	DIODE	RGP15J
D925	DUZ9R1BM—	DIODE ZENER	UZ-9.1BM 9.1V
D926	DUZ9R1BM—	DIODE ZENER	UZ-9.1BM 9.1V
D940	D1N4148—	DIODE	1N4148 (TAPPING)
D941	D1N4148—	DIODE	1N4148 (TAPPING)
J902	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J903	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J905	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J909	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J910	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J911	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J912	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J914	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING

LOC	PART-CODE	PART-NAME	PART-DESC
J915	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J916	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J917	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J919	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J932	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J933	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J934	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J950	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J951	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J952	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J990	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
L901	5MC0000100	COIL BEAD	HC-3550
L902	5MC0000100	COIL BEAD	HC-3550
L903	5MC0000100	COIL BEAD	HC-3550
L904	5MC0000100	COIL BEAD	HC-3550
L905	5MC0000100	COIL BEAD	HC-3550
L906	5MC0000100	COIL BEAD	HC-3550
L910	5MC0000100	COIL BEAD	HC-3550
L911	5MC0000100	COIL BEAD	HC-3550
L912	5MC0000100	COIL BEAD	HC-3550
RF703	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
RF704	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J
RF705	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J
RF706	RD-AZ132J-	R CARBON FILM	1/6 1.3K OHM J
RF707	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
RY1	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J
RY2	RD-4Z302J-	R CARBON FILM	1/4 3K OHM J
RY3	RD-4Z272J-	R CARBON FILM	1/4 2.7K OHM J
RY4	RD-4Z511J-	R CARBON FILM	1/4 510 OHM J
RY5	RD-4Z272J-	R CARBON FILM	1/4 2.7K OHM J
RY6	RD-4Z511J-	R CARBON FILM	1/4 510 OHM J
R902	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J
R903	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R904	RD-AZ911J-	R CARBON FILM	1/6 910 OHM J
R905	RD-4Z519J-	R CARBON FILM	1/4 5.1 OHM J
R906	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J
R907	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R908	RD-AZ302J-	R CARBON FILM	1/6 3K OHM J
R909	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J
R910	RD-4Z620J-	R CARBON FILM	1/4 62 OHM J
R911	RD-4Z181J-	R CARBON FILM	1/4 180 OHM J
R913	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R915	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R916	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J
R917	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J
R918	RD-AZ112J-	R CARBON FILM	1/6 1.1K OHM J
R919	RD-AZ683J-	R CARBON FILM	1/6 68K OHM J
R920	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R922	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J
R924	RD-2Z100J-	R CARBON FILM	1/2 10 OHM J
R925	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J
R926	RD-AZ683J-	R CARBON FILM	1/6 68K OHM J

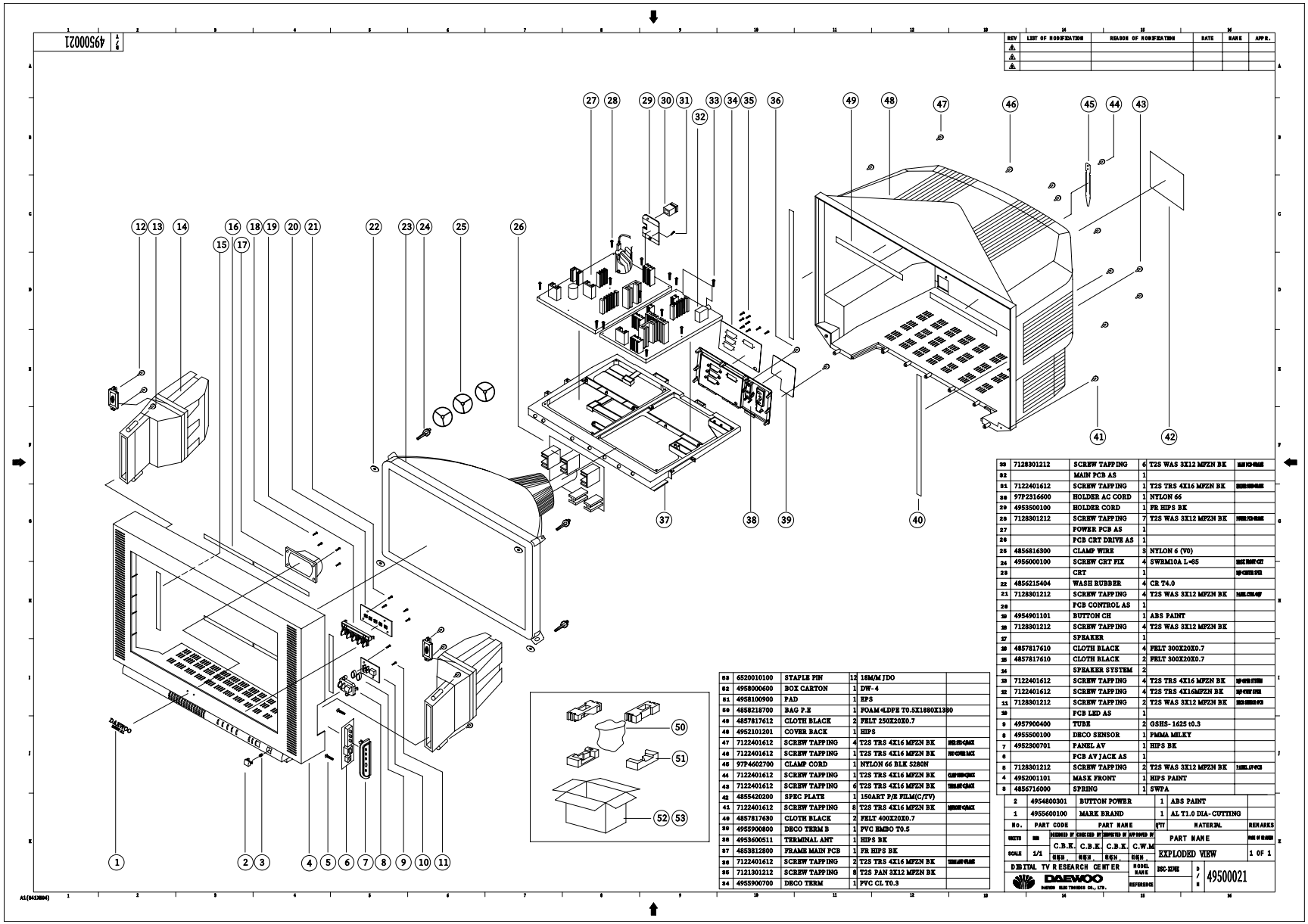
LOC	PART-CODE	PART-NAME	PART-DESC
R930	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J
R931	RD-4Z390J-	R CARBON FILM	1/4 39 OHM J
R933	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J
R934	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J
R935	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J
R936	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J
R937	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J
R938	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J
R942	RC-2Z102K-	R CARBON COMP	1/2 1K OHM K
R943	RC-2Z102K-	R CARBON COMP	1/2 1K OHM K
R944	RC-2Z102K-	R CARBON COMP	1/2 1K OHM K
R950	RD-AZ681J-	R CARBON FILM	1/6 680 OHM J
R951	RD-AZ681J-	R CARBON FILM	1/6 680 OHM J
R952	RD-4Z105J-	R CARBON FILM	1/4 1M OHM J
R955	RD-AZ132J-	R CARBON FILM	1/6 1.3K OHM J
R956	RD-AZ911J-	R CARBON FILM	1/6 910 OHM J
R958	RD-AZ681J-	R CARBON FILM	1/6 680 OHM J
R970	RD-2Z279J-	R CARBON FILM	1/2 2.7 OHM J
R975	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J
R980	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J
R981	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J
R982	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J
R983	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J
ZZ600	PEAVMSD018	PCB A/V MANUAL AS	DSC-3270E
J901	4959102050	JACK PIN BOARD	DSSM-9516
J902	4959102050	JACK PIN BOARD	DSSM-9516
J903	4959102050	JACK PIN BOARD	DSSM-9516
J904	4959101950	JACK PIN BOARD	YKD21-0155
M232	4952300701	PANEL AV	HIPS PAINT
M232A	7178301211	SCREW TAPTITE	TT2 WAS 3X12 MFZN
PA901	4859279320	CONN WAFER	TAC-L13P-A3 (ANGLE)
PA902	4859279320	CONN WAFER	TAC-L13P-A3 (ANGLE)
PWU1A	4950711002	CONNECTOR	YH025-11+YST250+USW=600
PW901	4859236220	CONN WAFER	YAW025-05
PW902	4859236820	CONN WAFER	YAW025-11
PW903	4859236120	CONN WAFER	YAW025-04
ZZ200	PEAVJ2D018	PCB A/V CHIP B AS	DSC-3270E
CC901	HCQK331JCA	C CHIP CERA	50V CH 330PF J 2012
CC902	HCQK331JCA	C CHIP CERA	50V CH 330PF J 2012
CC903	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CC904	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CC905	HCQK102JCA	C CHIP CERA	50V CH 1000PF J 2012
CC906	HCQK102JCA	C CHIP CERA	50V CH 1000PF J 2012
CC907	HCQK102JCA	C CHIP CERA	50V CH 1000PF J 2012
CC933	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CC940	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
CC944	HCQK331JCA	C CHIP CERA	50V CH 330PF J 2012
CC950	HCBK104KCA	C CHIP CERA	50V X7R 0.1MF K 2012
DC901	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC902	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC903	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC904	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V

LOC	PART-CODE	PART-NAME	PART-DESC
DC905	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC906	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC907	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC908	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC909	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC911	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC912	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC913	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC914	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC915	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC916	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC917	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC919	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC920	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC921	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC922	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC923	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC924	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC925	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC926	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC927	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC928	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC929	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC930	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC933	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC934	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC935	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC936	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
DC937	DZ02W5R6VA	DIODE CHIP ZENER	Z02W5.6V
I901	14053BFN-D	IC CHIP	TC4053BFN
I902	14053BFN-D	IC CHIP	TC4053BFN
I903	1CXA1855QQ	IC CHIP SWITCH	CXA1855Q
QC902	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QC903	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QC904	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QC905	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QC906	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QC910	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
QC920	T2SC2412KB	TR CHIP	2SC2412K-T146-BR
RC901	HRFT224JCA	R CHIP	1/10 220K OHM J 2012
RC902	HRFT224JCA	R CHIP	1/10 220K OHM J 2012
RC903	HRFT224JCA	R CHIP	1/10 220K OHM J 2012
RC904	HRFT000-CA	R CHIP	1/10 0 OHM 2012
RC905	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC906	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
RC907	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
RC908	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC909	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC910	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC912	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC913	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC914	HRFT224JCA	R CHIP	1/10 220K OHM J 2012

LOC	PART-CODE	PART-NAME	PART-DESC
RC915	HRFT224JCA	R CHIP	1/10 220K OHM J 2012
RC916	HRFT224JCA	R CHIP	1/10 220K OHM J 2012
RC917	HRFT224JCA	R CHIP	1/10 220K OHM J 2012
RC918	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
RC919	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
RC920	HRFT203JCA	R CHIP	1/10 20K OHM J 2012
RC921	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC922	HRFT224JCA	R CHIP	1/10 220K OHM J 2012
RC923	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC925	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC927	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC928	HRFT331JCA	R CHIP	1/10 330 OHM J 2012
RC929	HRFT242JCA	R CHIP	1/10 2.4K OHM J 2012
RC931	HRFT000-CA	R CHIP	1/10 0 OHM 2012
RC932	HRFT000-CA	R CHIP	1/10 0 OHM 2012
RC933	HRFT000-CA	R CHIP	1/10 0 OHM 2012
RC940	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
RC941	HRFT152JCA	R CHIP	1/10 1.5K OHM J 2012
RC943	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC944	HRFT224JCA	R CHIP	1/10 220K OHM J 2012
RC945	HRFT224JCA	R CHIP	1/10 220K OHM J 2012
RC946	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC947	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC948	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC949	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC950	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC951	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC952	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC953	HRFT391JCA	R CHIP	1/10 390 OHM J 2012
RC954	HRFT331JCA	R CHIP	1/10 330 OHM J 2012
RC955	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC956	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC957	HRFT331JCA	R CHIP	1/10 330 OHM J 2012
RC958	HRFT331JCA	R CHIP	1/10 330 OHM J 2012
RC959	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC960	HRFT331JCA	R CHIP	1/10 330 OHM J 2012
RC961	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC962	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC965	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC966	HRFT221JCA	R CHIP	1/10 220 OHM J 2012
RC967	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC968	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC969	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC970	HRFT203JCA	R CHIP	1/10 20K OHM J 2012
RC974	HRFT221JCA	R CHIP	1/10 220 OHM J 2012
RC975	HRFT221JCA	R CHIP	1/10 220 OHM J 2012
RC977	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC978	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC979	HRFT224JCA	R CHIP	1/10 220K OHM J 2012
RC980	HRFT224JCA	R CHIP	1/10 220K OHM J 2012
RC981	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC982	HRFT224JCA	R CHIP	1/10 220K OHM J 2012

LOC	PART-CODE	PART-NAME	PART-DESC
RC983	HRFT224JCA	R CHIP	1/10 220K OHM J 2012
RC984	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC986	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC987	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC988	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC989	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC990	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
RC992	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
RC993	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
RC994	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
RC997	HRFT242JCA	R CHIP	1/10 2.4K OHM J 2012
ZZ200	PEAVJ1D018	PCB A/V CHIP A AS	DSC-3270E
A001 ⚠	4959806024	PCB A/V	170 X 186
CC908	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC909	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC910	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC911	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC913	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC914	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC915	HCEEF101MC	C ELECTRO CHIP	MV 16V 100MF 6.3DX5.7H
CC916	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC917	HCEJF100MC	C ELECTRO CHIP	16V 10MF MV 4052
CC918	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC919	HCEJF100MC	C ELECTRO CHIP	16V 10MF MV 4052
CC920	HCEJF100MC	C ELECTRO CHIP	16V 10MF MV 4052
CC921	HCEJF100MC	C ELECTRO CHIP	16V 10MF MV 4052
CC922	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC923	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC924	HCEJF100MC	C ELECTRO CHIP	16V 10MF MV 4052
CC925	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC926	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC927	HCEJF100MC	C ELECTRO CHIP	16V 10MF MV 4052
CC928	HCEJF100MC	C ELECTRO CHIP	16V 10MF MV 4052
CC929	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC930	HCEJF100MC	C ELECTRO CHIP	16V 10MF MV 4052
CC931	HCEJK109MC	C ELECTRO CHIP	MV 50V 1MF 3.0DX5.2H
CC932	HCEJF100MC	C ELECTRO CHIP	16V 10MF MV 4052
EC901	HFEACF470B	F CHIP EMI	ACF321825 47P
EC902	HFEACF470B	F CHIP EMI	ACF321825 47P
EC903	HFEACF470B	F CHIP EMI	ACF321825 47P
EC904	HFEACF470B	F CHIP EMI	ACF321825 47P
EC905	HFEACF470B	F CHIP EMI	ACF321825 47P
EC906	HFEACF470B	F CHIP EMI	ACF321825 47P
EC907	HFEACF470B	F CHIP EMI	ACF321825 47P
EC908	HFEACF470B	F CHIP EMI	ACF321825 47P
EC910	HFEACF470B	F CHIP EMI	ACF321825 47P
EC911	HFEACF470B	F CHIP EMI	ACF321825 47P
EC912	HFEACF470B	F CHIP EMI	ACF321825 47P
EC913	HFEACF470B	F CHIP EMI	ACF321825 47P
EC914	HFEACF470B	F CHIP EMI	ACF321825 47P
EC915	HFEACF470B	F CHIP EMI	ACF321825 47P

8. Mechanical Exploded View

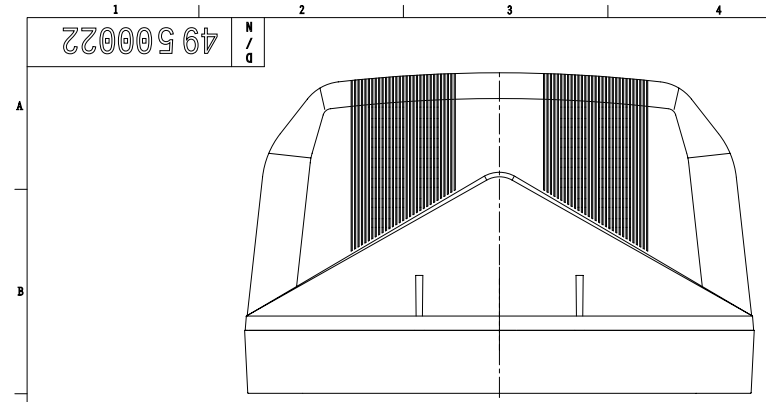


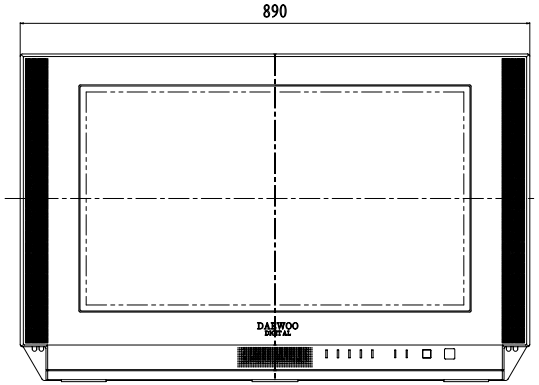
53	6520010100	STAPLE PIN	12	18M/M JDO	
52	4958000600	BOX CARTON	1	DW-4	
51	4958100900	PAD	1	EPS	
50	4858218700	BAG P.E	1	FOAM+LDPE T0.5X1880X1380	
49	4857817612	CLOTH BLACK	2	FELT 250X20X0.7	
48	4952101201	COVER BACK	1	HIPS	
47	7122401612	SCREW TAPPING	4	T2S TRS 4X16 MFZN BK	
46	7122401612	SCREW TAPPING	1	T2S TRS 4X16 MFZN BK	
45	97P4602700	CLAMP CORD	1	NYLON 66 BLK 5280N	
44	7122401612	SCREW TAPPING	1	T2S TRS 4X16 MFZN BK	
43	7122401612	SCREW TAPPING	6	T2S TRS 4X16 MFZN BK	
42	4855420200	SPEC PLATE	1	150ART P/E FILM(C/TV)	
41	7122401612	SCREW TAPPING	8	T2S TRS 4X16 MFZN BK	
40	4857817630	CLOTH BLACK	2	FELT 400X20X0.7	
39	4955900800	DECO TERM B	1	PVC EMBO T0.5	
38	4953600511	TERMINAL ANT	1	HIPS BK	
37	4853812800	FRAME MAIN PCB	1	FR HIPS BK	
36	7122401612	SCREW TAPPING	2	T2S TRS 4X16 MFZN BK	
35	7121301212	SCREW TAPPING	8	T2S PAN 3X12 MFZN BK	
34	4955900700	DECO TERM	1	PVC CL T0.3	

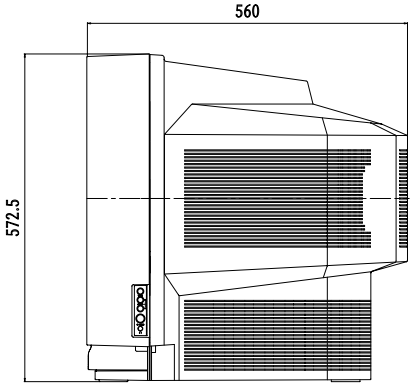
33	7128301212	SCREW TAPPING	6	T2S WAS 3X12 MFZN BK	
32		MAIN PCB AS	1		
31	7122401612	SCREW TAPPING	1	T2S TRS 4X16 MFZN BK	
30	97P2316600	HOLDER AC CORD	1	NYLON 66	
29	4953500100	HOLDER CORD	1	FR HIPS BK	
28	7128301212	SCREW TAPPING	7	T2S WAS 3X12 MFZN BK	
27		POWER PCB AS	1		
26		PCB CRT DRIVE AS	1		
25	4856816300	CLAMP WIRE	3	NYLON 6 (V0)	
24	4956000100	SCREW CRT FIX	4	SWRM10A L=65	
23		CRT	1		
22	4856215404	WASH RUBBER	4	CR T4.0	
21	7128301212	SCREW TAPPING	4	T2S WAS 3X12 MFZN BK	
20		PCB CONTROL AS	1		
19	4954901101	BUTTON CH	1	ABS PAINT	
18	7128301212	SCREW TAPPING	4	T2S WAS 3X12 MFZN BK	
17		SPEAKER	1		
16	4857817610	CLOTH BLACK	4	FELT 300X20X0.7	
15	4857817610	CLOTH BLACK	2	FELT 300X20X0.7	
14		SPEAKER SYSTEM	2		
13	7122401612	SCREW TAPPING	4	T2S TRS 4X16 MFZN BK	
12	7122401612	SCREW TAPPING	4	T2S TRS 4X16MFZN BK	
11	7128301212	SCREW TAPPING	2	T2S WAS 3X12 MFZN BK	
10		PCB LED AS	1		
9	4957900400	TUBE	2	GSHS- 1625 t0.3	
8	4955500100	DECO SENSOR	1	PMMA MILKY	
7	4952300701	PANEL AV	1	HIPS BK	
6		PCB AV JACK AS	1		
5	7128301212	SCREW TAPPING	2	T2S WAS 3X12 MFZN BK	
4	4952001101	MASK FRONT	1	HIPS PAINT	
3	4856716000	SPRING	1	SWPA	
2	4954800301	BUTTON POWER	1	ABS PAINT	
1	4955600100	MARK BRAND	1	AL T1.0 DIA-CUTTING	

No.	PART CODE	PART NAME	Q'TY	MATERIAL	REMARKS
UNITS	MM	DRAWED BY / CHECKED BY / INSPECTED BY / APPROVED BY	PART NAME		NO. OF SHEET
		C.B.K. / C.B.K. / C.B.K. / C.W.M			
SCALE	1/1	비율 / 비율 / 비율 / 비율	EXPLODED VIEW		1 OF 1

DIGITAL TV RESEARCH CENTER | DAEWOO ELECTRONICS CO., LTD. | MODEL NAME | DSC-10VK | D/N | 49500021 | REFERENCE







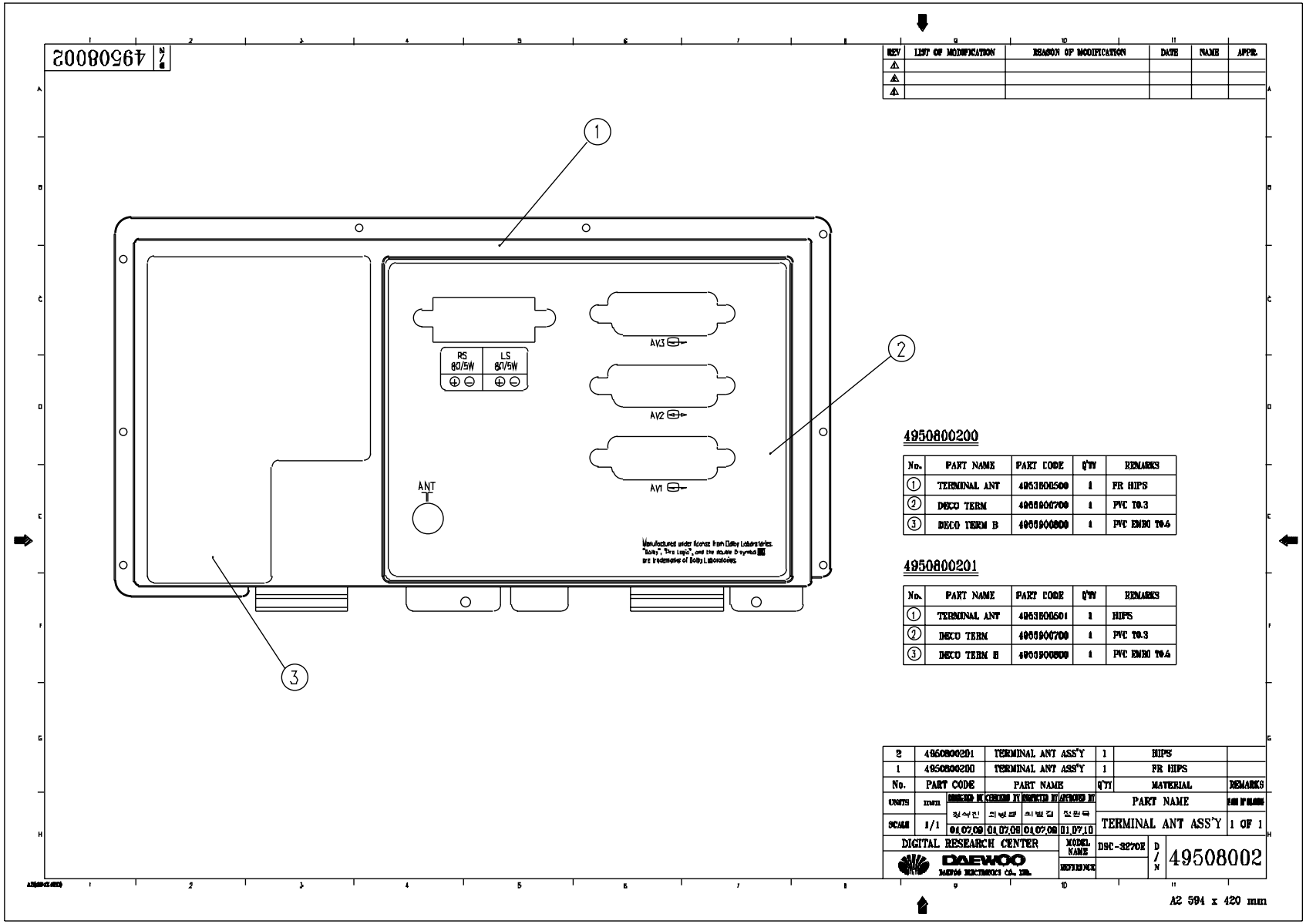
REV	LIST OF MODIFICATION	REASON OF MODIFICATION	DATE	NAME	APPR.
1			/ /		
2			/ /		
3			/ /		

No.	PART CODE	PART NAME	Q'TY	MATERIAL	REMARKS
2					
1	4950002200	EXTERNAL VIEW			

UNITS	mm	DESIGNED BY	CHECKED BY	INSPECTED BY	APPROVED BY	PART NAME	PAGE OF DRAWING
SCALE	1/1	C.B.K. 01.05.14.	C.B.K. 01.05.14.	C.B.K. 01.05.14.	C.W.M. 01.05.14.	EXTERNAL VIEW	1 OF 1

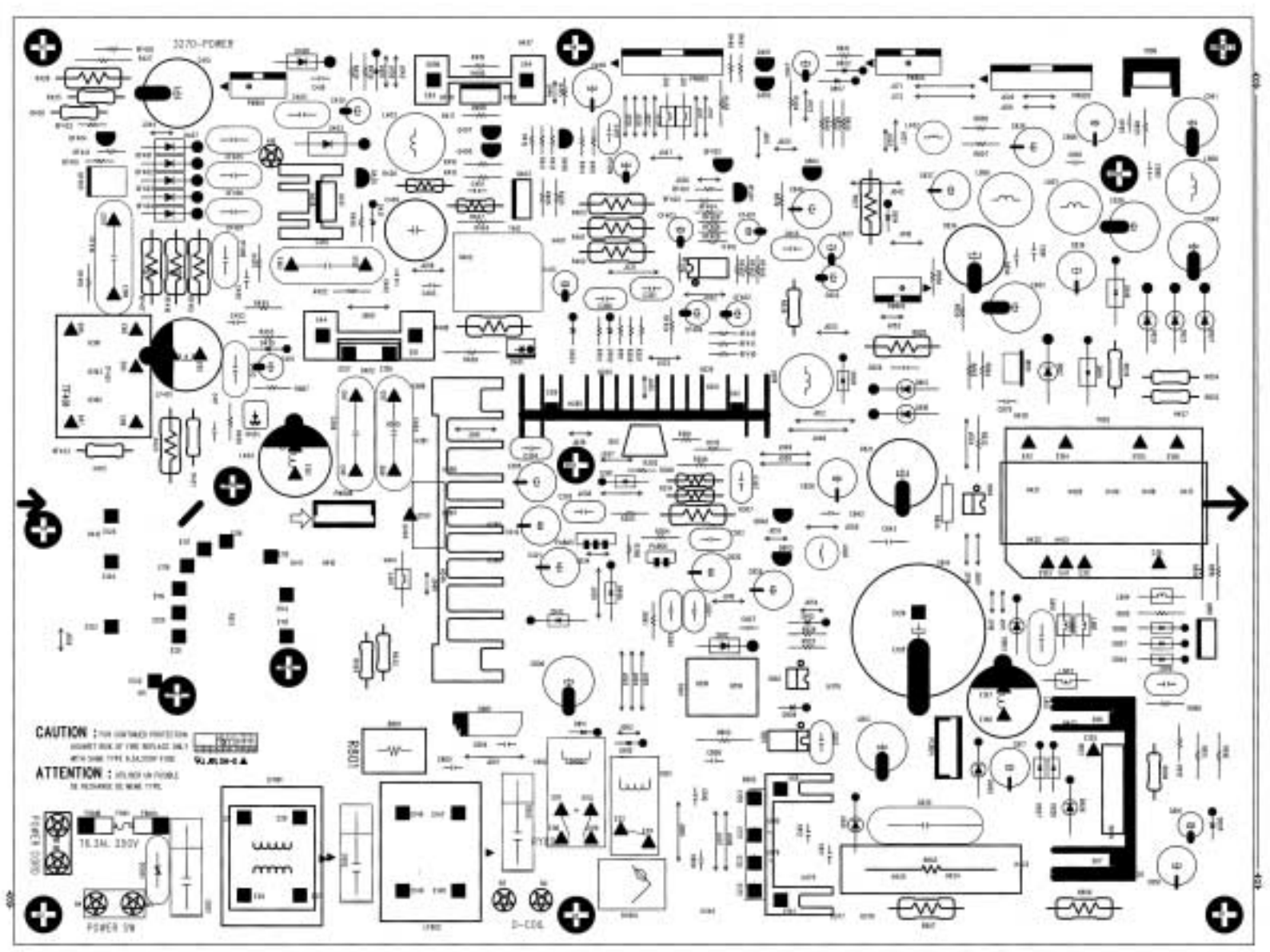
DIGITAL TV RESEARCH CENTER	MODEL NAME	DSC-3270E	D/N	49500022
DAEWOO ELECTRONICS CO., LTD.	REFERENCE			

A3(420X297)

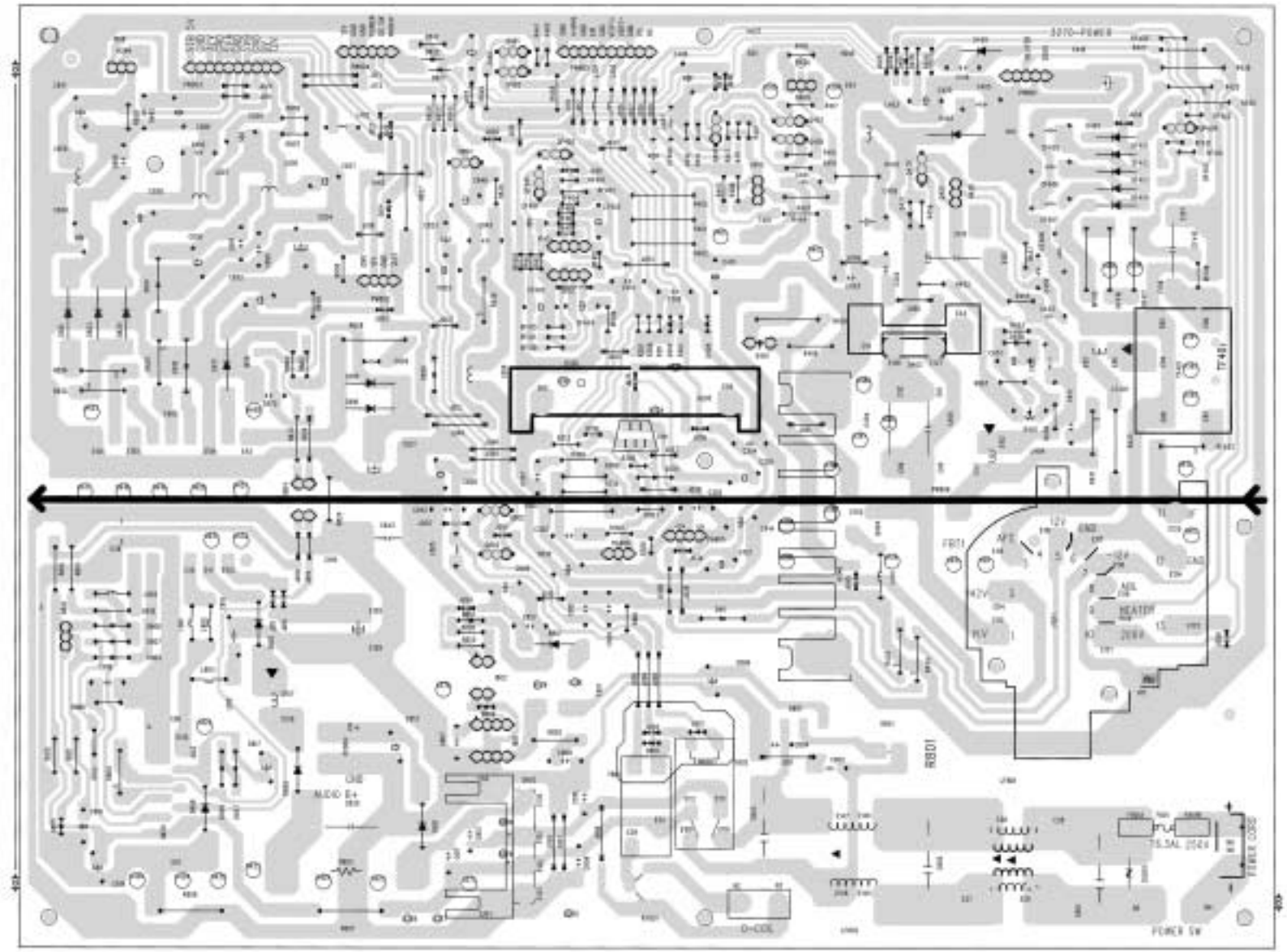

P/N 49508002
REV | LIST OF MODIFICATION | REASON OF MODIFICATION | DATE | NAME | APPR.
1
2
3
RS 8Ω/5W
LS 8Ω/5W
AV3
AV2
AV1
ANT
Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.
4950800200
No. | PART NAME | PART CODE | Q'TY | REMARKS
① | TERMINAL ANT | 4953800500 | 1 | FR HIPS
② | DECO TERM | 4953900700 | 1 | PVC T0.3
③ | DECO TERM B | 4953900800 | 1 | PVC EMBO T0.6
4950800201
No. | PART NAME | PART CODE | Q'TY | REMARKS
① | TERMINAL ANT | 4953800501 | 1 | HIPS
② | DECO TERM | 4953900700 | 1 | PVC T0.3
③ | DECO TERM H | 4953900500 | 1 | PVC EMBO T0.6
2 | 4950800201 | TERMINAL ANT ASS'Y | 1 | HIPS
1 | 4950800200 | TERMINAL ANT ASS'Y | 1 | FR HIPS
No. | PART CODE | PART NAME | Q'TY | MATERIAL | REMARKS
UNITS | mm
SCALE | 1/1
04.07.09 | 04.07.09 | 04.07.09 | 01.07.10
PART NAME
TERMINAL ANT ASS'Y
1 OF 1
DIGITAL RESEARCH CENTER
DAEWOO ELECTRONICS CO., LTD.
MODEL NAME
DSC-3270E
REFERENCE
D/N 49508002
A2 594 x 420 mm

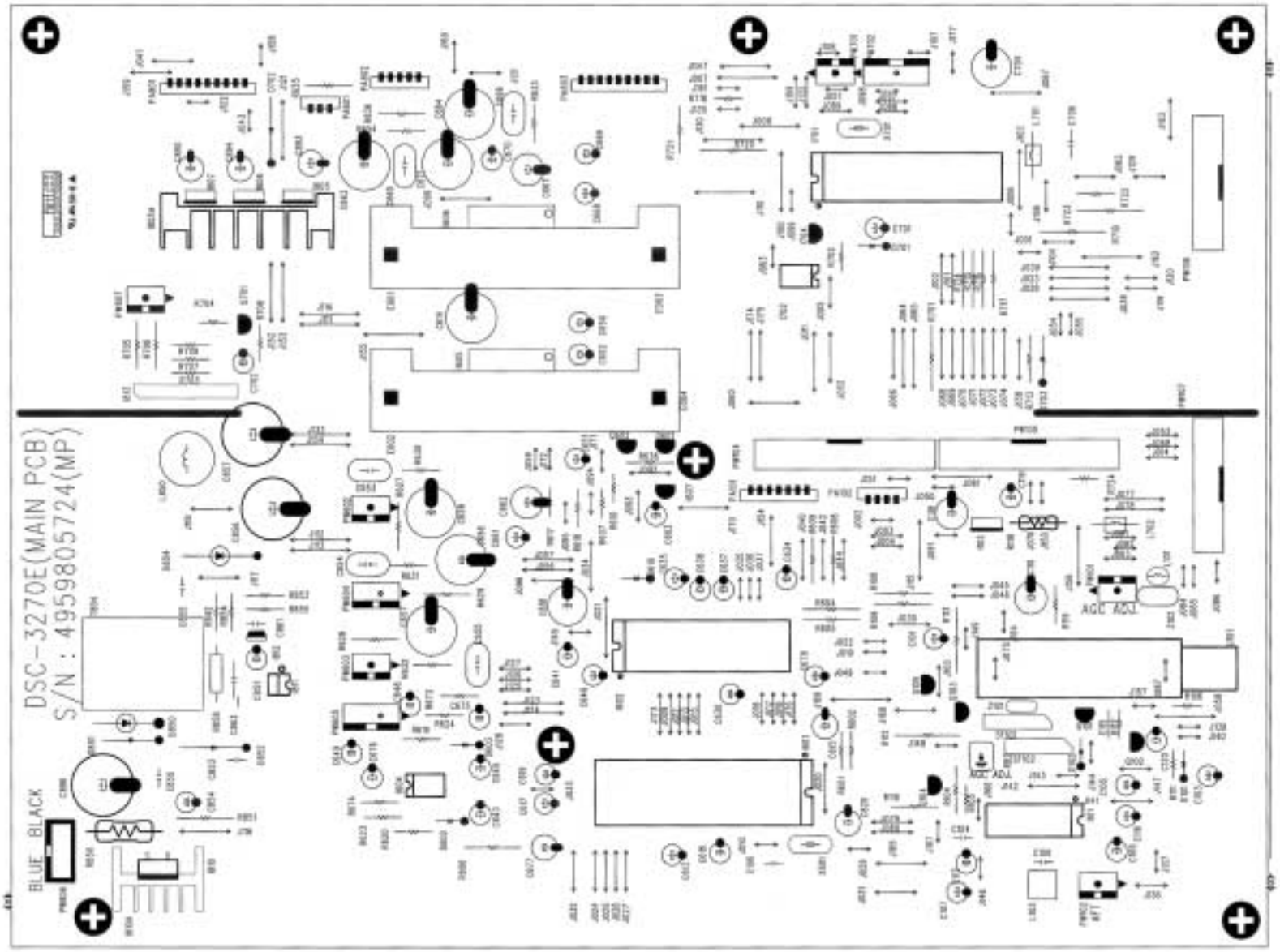
9. Printed Circuit Board

POWER PCB (FRONT)

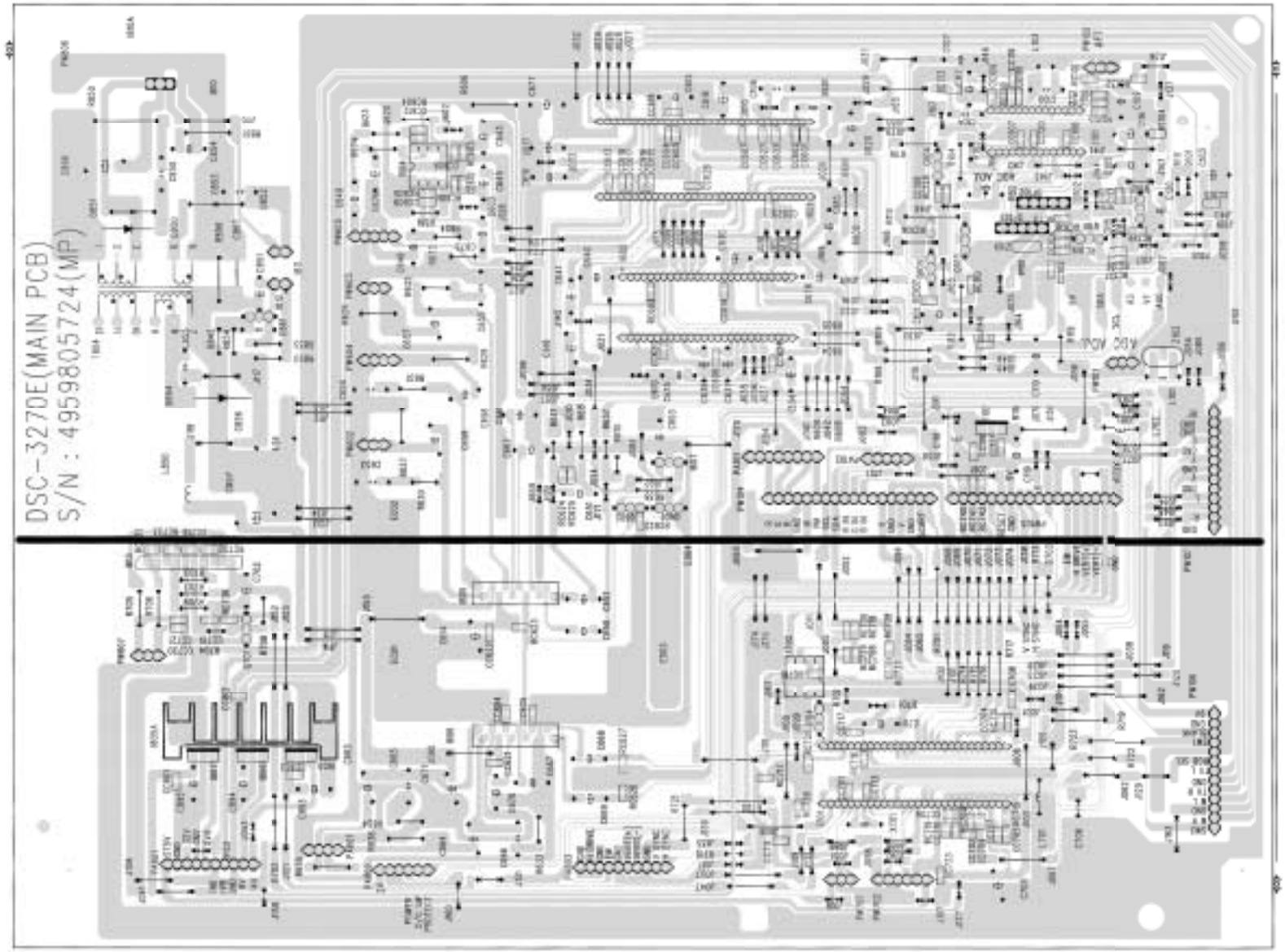


POWER PCB (REAR)

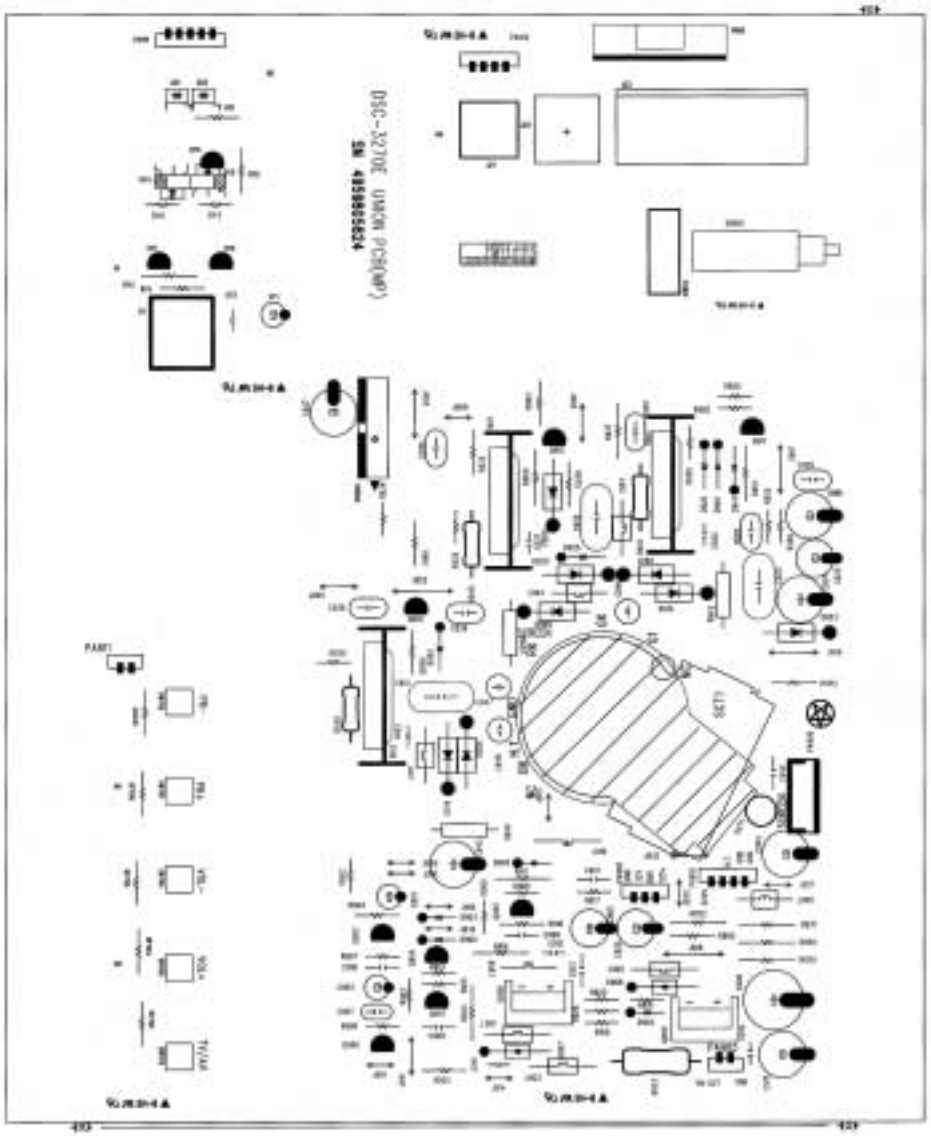



DSC-3270E(MAIN PCB)
S/N : 4959805724(MP)
BLUE BLACK
AGC ADJ.

MAIN PCB (REAR)

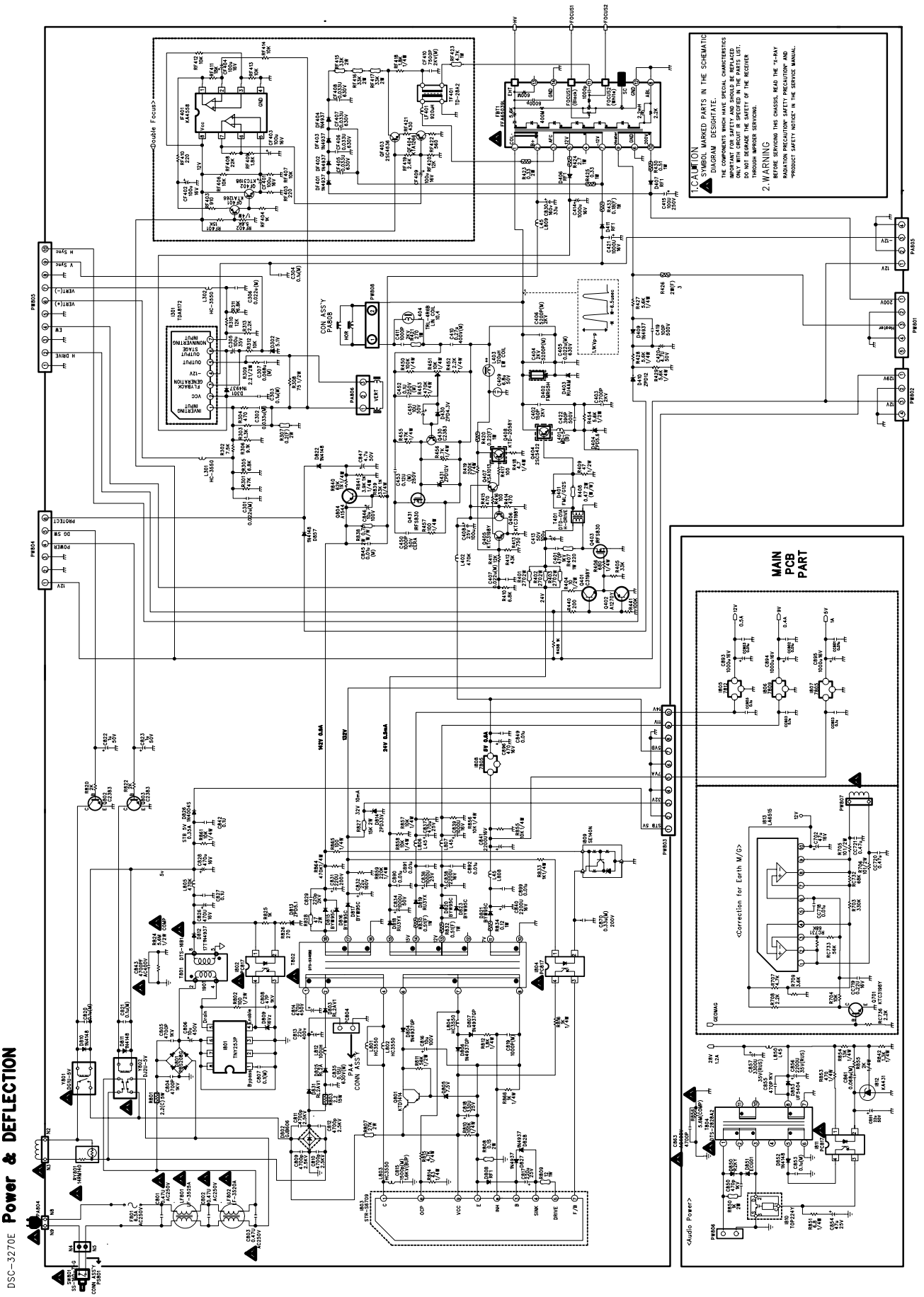


UNION PCB (FRONT)

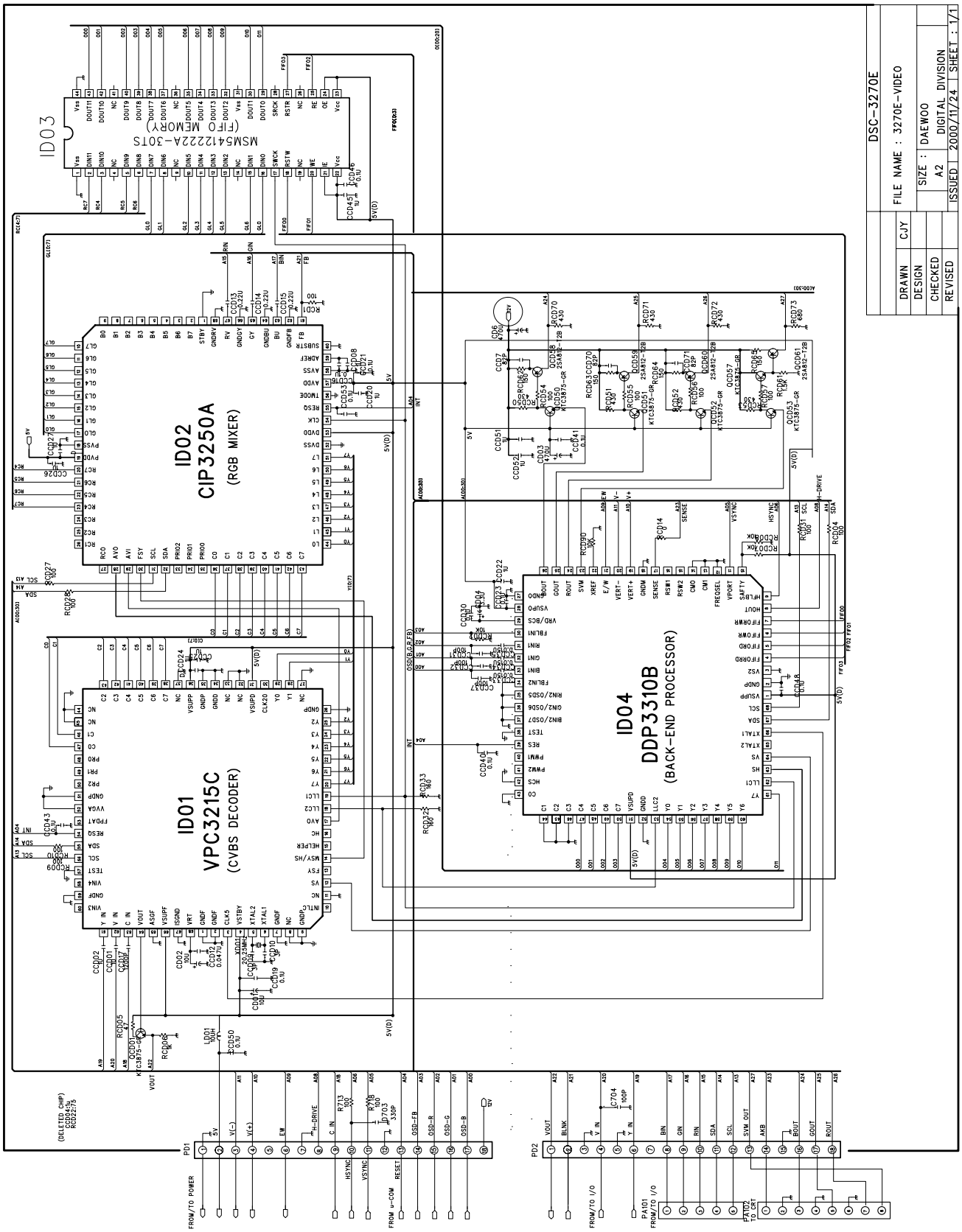


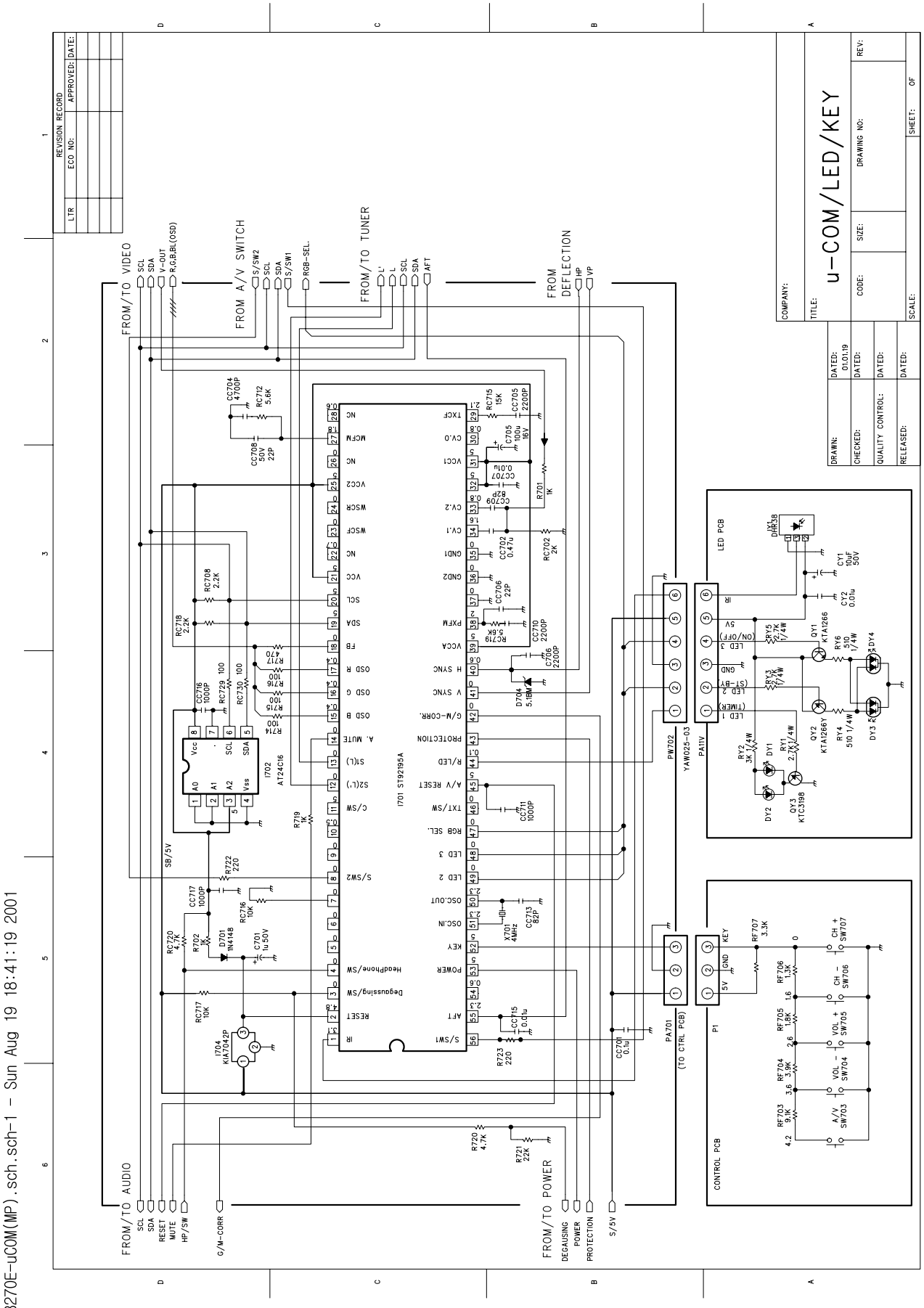
UNION PCB (REAR)

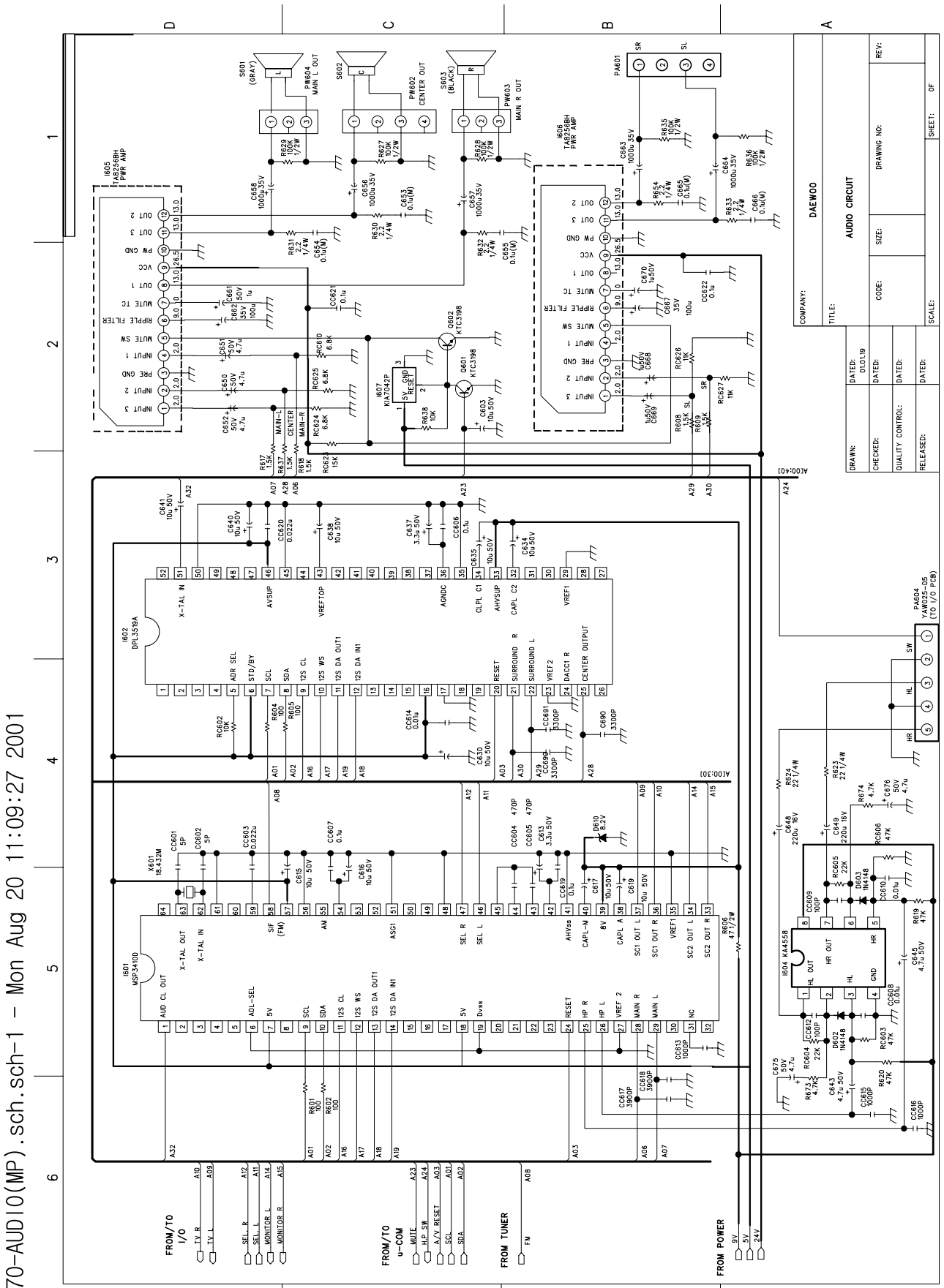
10. Schematic Diagram



Schematic Diagram




FROM/TO VIDEO
FROM A/V SWITCH
FROM/TO TUNER
FROM DEFLECTION
FROM/TO AUDIO
FROM/TO POWER
u-COM/LED/KEY
LED PCB
CONTROL PCB
I701 ST92195A
I702 AT24C16
I704 KIA7042P
PW702 YAW025-03
PA701 (TO CTRL PCB)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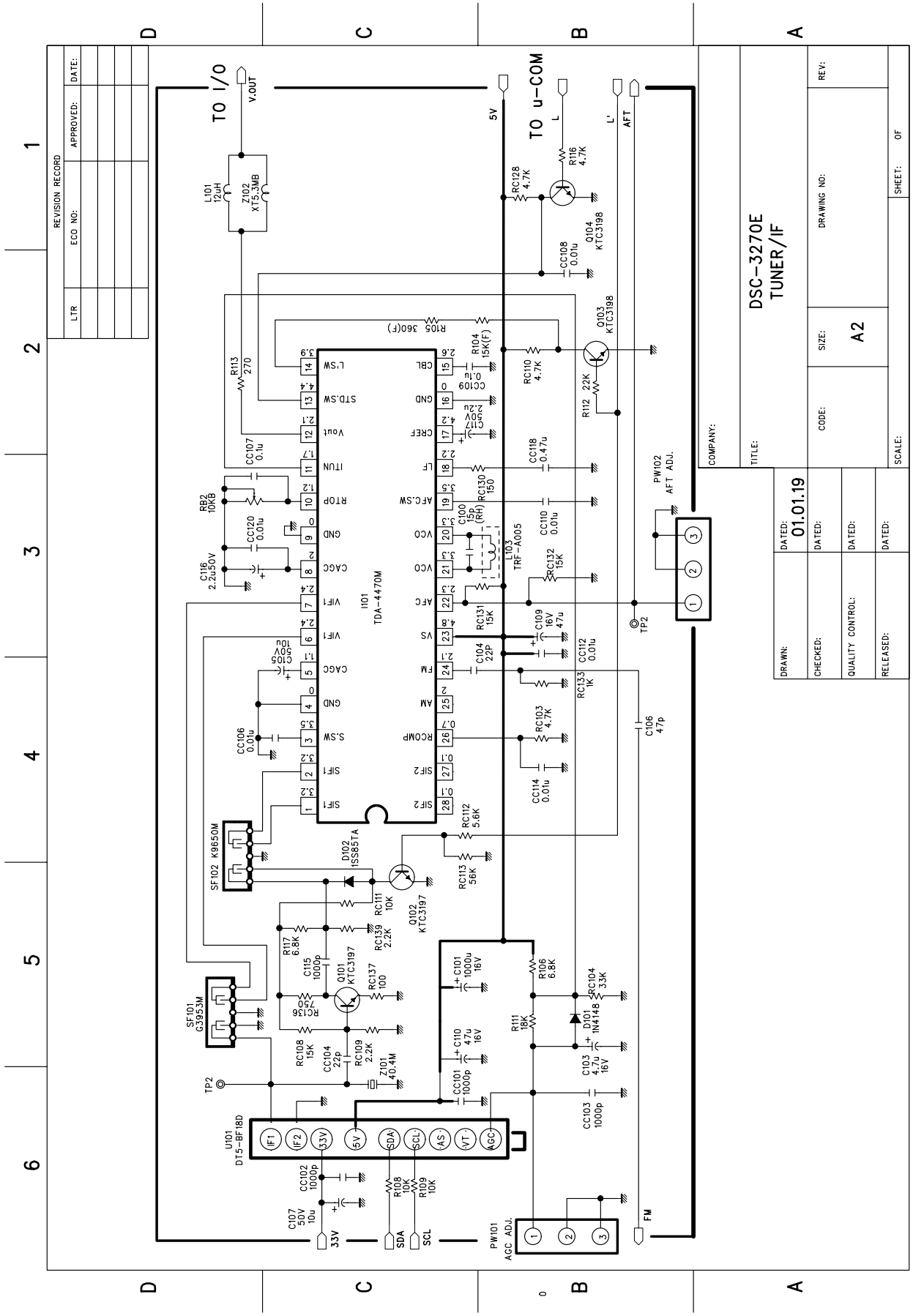
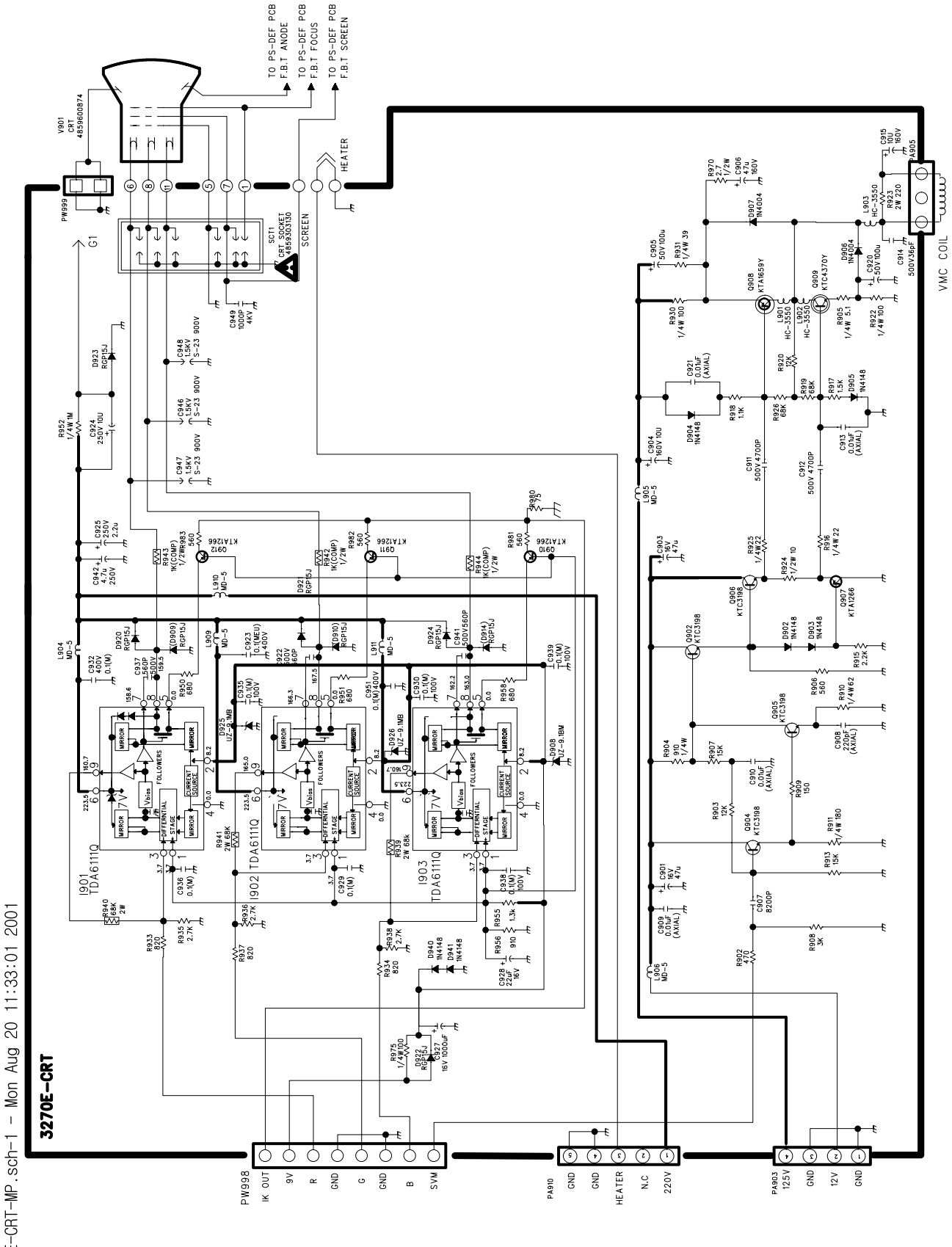
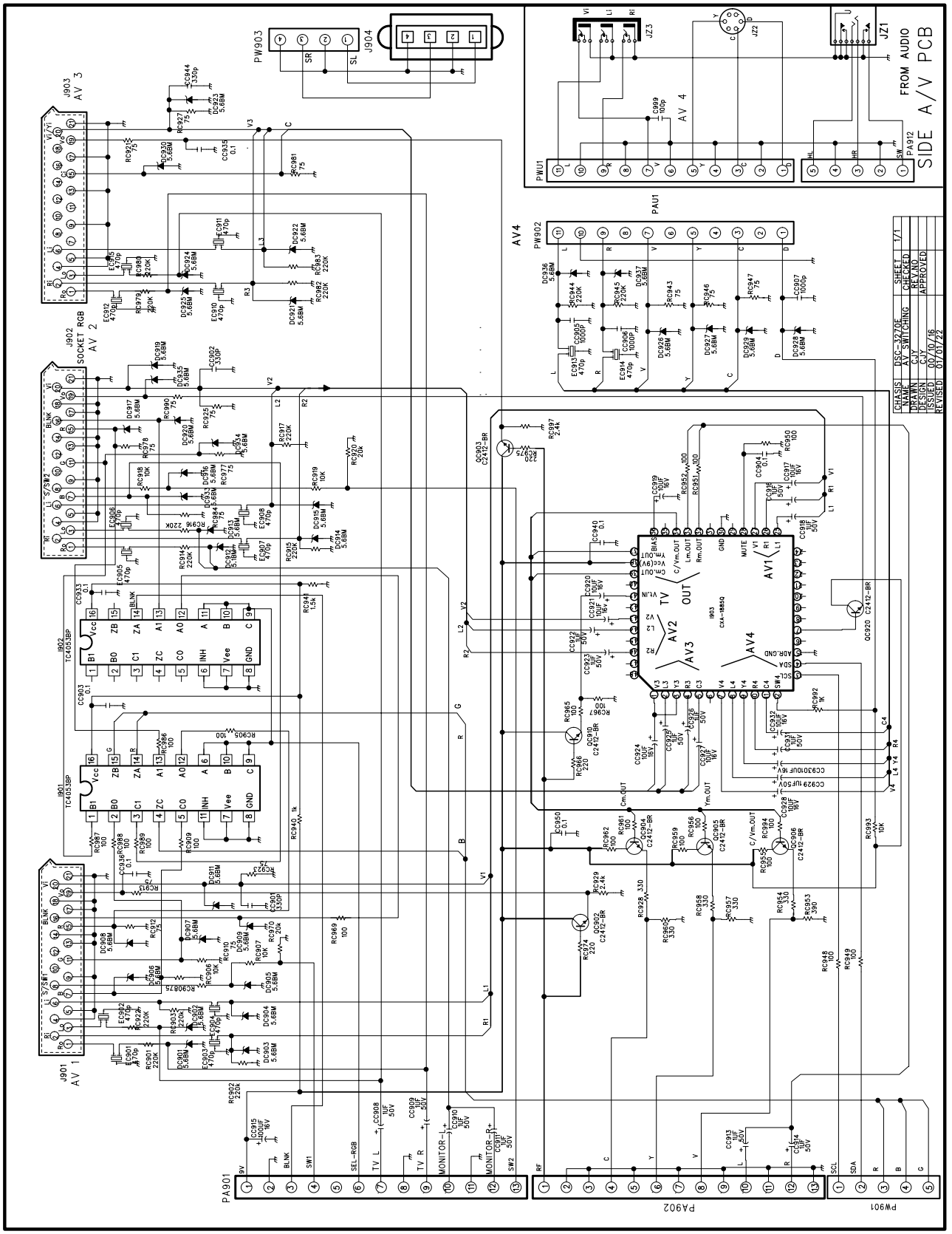
COMPANY: DAEWOO
TITLE: AUDIO CIRCUIT
DRAWN: DATED: 01.01.19
CHECKED: DATED:
QUALITY CONTROL: DATED:
RELEASED: DATED:
CODE: SIZE: DRAWING NO: REV:
SCALE: SHEET: OF
FROM/TO I/O
FROM/TO u-COM
FROM TUNER
FROM POWER


REVISION RECORD
LTR
ECO NO:
APPROVED:
DATE:
TO I/O
V.OUT
TO u-COM
5V
L
L'
AFT
DSC-3270E
TUNER/IF
COMPANY:
TITLE:
CODE:
SIZE:
A2
DRAWING NO:
REV:
SCALE:
SHEET: OF
DRAWN:
DATED: 01.01.19
CHECKED:
DATED:
QUALITY CONTROL:
DATED:
RELEASED:
DATED:
I101
TDA-4470M
L103
TRF-A005
SF102 K9650M
SF101 G3953M
U101
DT5-BF18D
PW101
AGC ADJ.
PW102
AFT ADJ.
TP2
FM
SDA
SCL
33V


3270E-CRT
3270E-CRT-MP.sch-1 - Mon Aug 20 11:33:01 2001
TO PS-DEF PCB F.B.T ANODE
TO PS-DEF PCB F.B.T FOCUS
TO PS-DEF PCB F.B.T SCREEN
HEATER
SCREEN
VMC COIL
V901 CRT 4859600874
PW999
SCT1 CRT SOCKET 4859301350
G1
I901 TDA6111Q
I902 TDA6111Q
I903 TDA6111Q
PW998
IK OUT
9V
R
GND
G
GND
B
SVM
PA910
GND
GND
HEATER
N.C
220V
P4903
125V
GND
12V
GND


FROM AUDIO
SIDE A/V PCB
CHASIS DSC-3270E
NAME AV SWITCHING
DESIGN C.Y
ISSUED 00/10/16
REVISED 01/01/22
SHEET 1/1
CHECKED
APPROVED
PA901
PA902
PW901
PW903
J901 AV 1
J902 SOCKET RGB AV 2
J903 AV 3
J904
PAU1
PWU1
PA912
JZ1
JZ2
JZ3
AV4
AV1
TC4053BP
CXA-1865Q

DAEWOO

DAEWOO ELECTRONICS CO., LTD

686, AHYEON-DONG MAPO-GU
SEOUL, KOREA
C.P.O. BOX 8003 SEOUL, KOREA
TELEX : DWELEC K28177-8
CABLE : “DAEWOOELEC”
E-mail :djkoo@web.dwe.co.kr